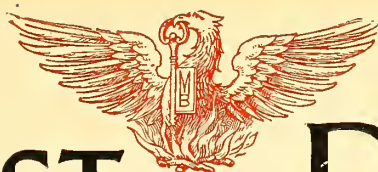




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The



CHEMIST AND DRUGGIST

for RETAILER - WHOLESALE - MANUFACTURER

Established 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

No. 3183
VOL. CXXXIV

FEBRUARY 8, 1941

Annual Subscription (with
Diary) 25/- Single Copies 9d.

MAY & BAKER PRODUCTS

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BAKER'S
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- ★ SOLUSEPTASINE
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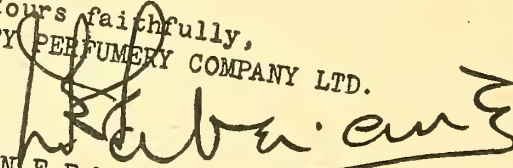
As a retailer you doubtless find difficulty in obtaining sufficient Brylcreem, Hiltone Bleach and Brylfoam to meet your ever increasing demand.

If you have been inclined to blame us or your wholesaler please remember that the root and only cause of the trouble is the Limitation of Supplies Order issued by the Board of Trade. Both we and your Wholesalers have to live on the business you place with us and we should not refuse your good orders if the National interest did not compel us.

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When in difficulty write to us for names we want to do all we can to help you in these difficult times.

Yours faithfully,
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(N.F. Fabricius)
Managing Director.

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THE

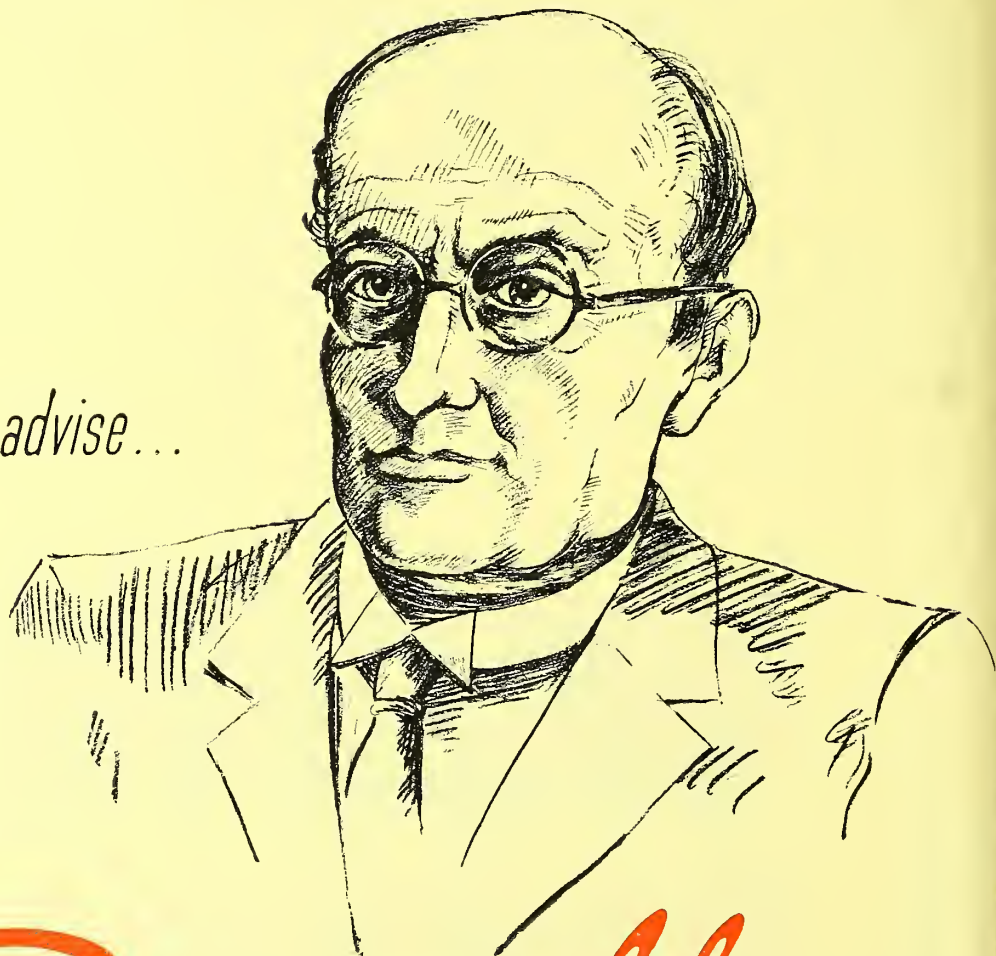
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Meat rationing underlines the importance of preserving the health of all kinds of farm stock—and in particular of the new season's lambs.

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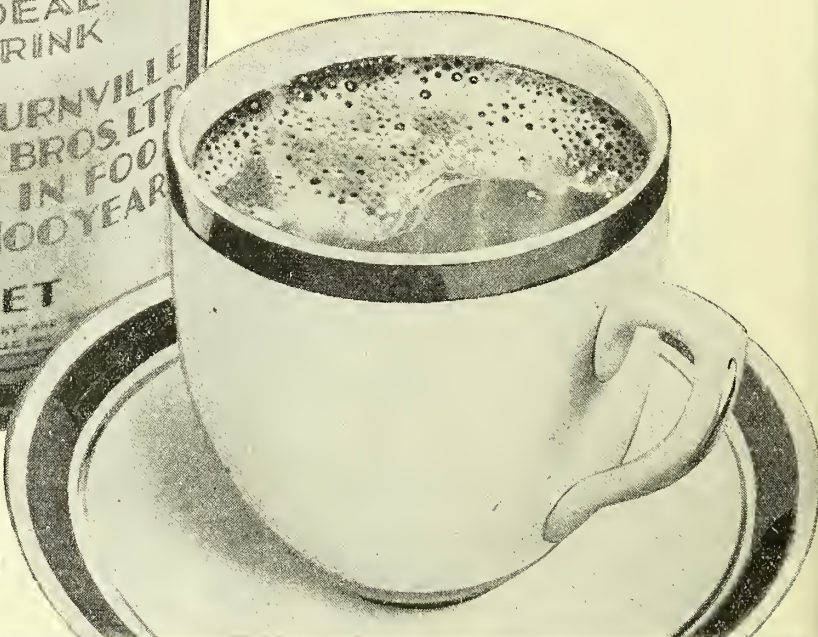
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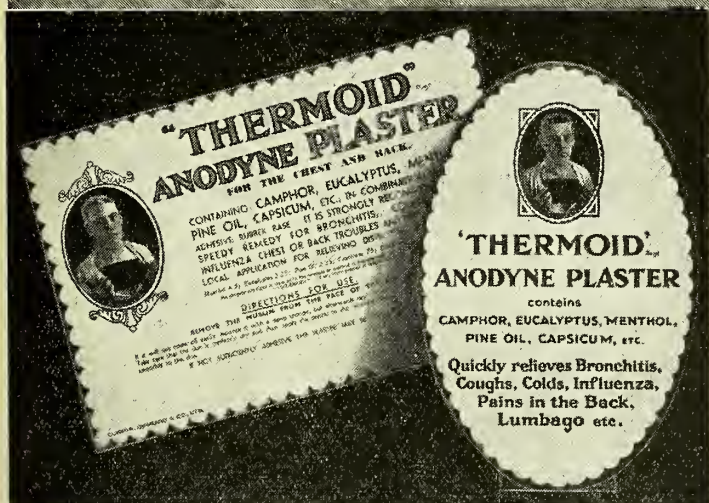
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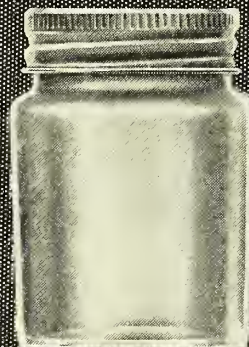
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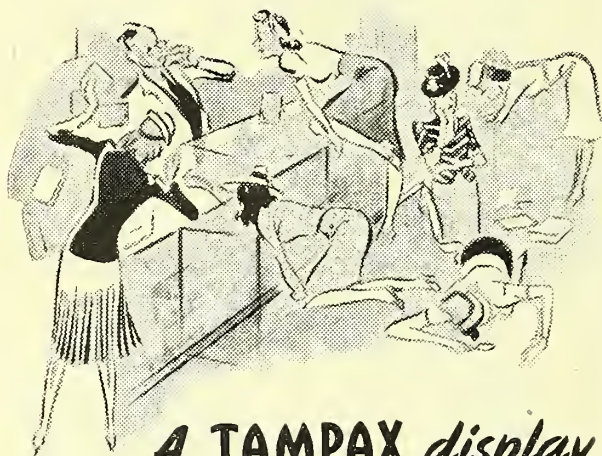
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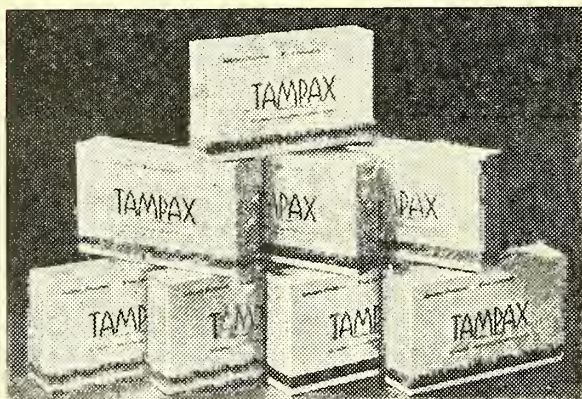


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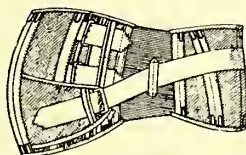
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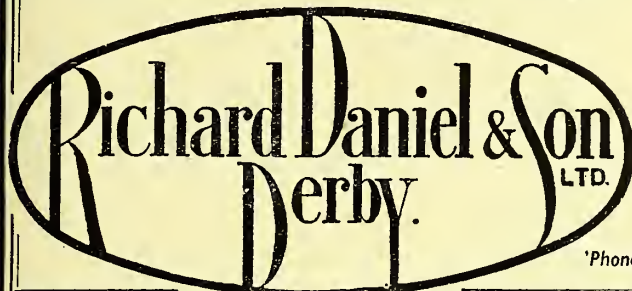
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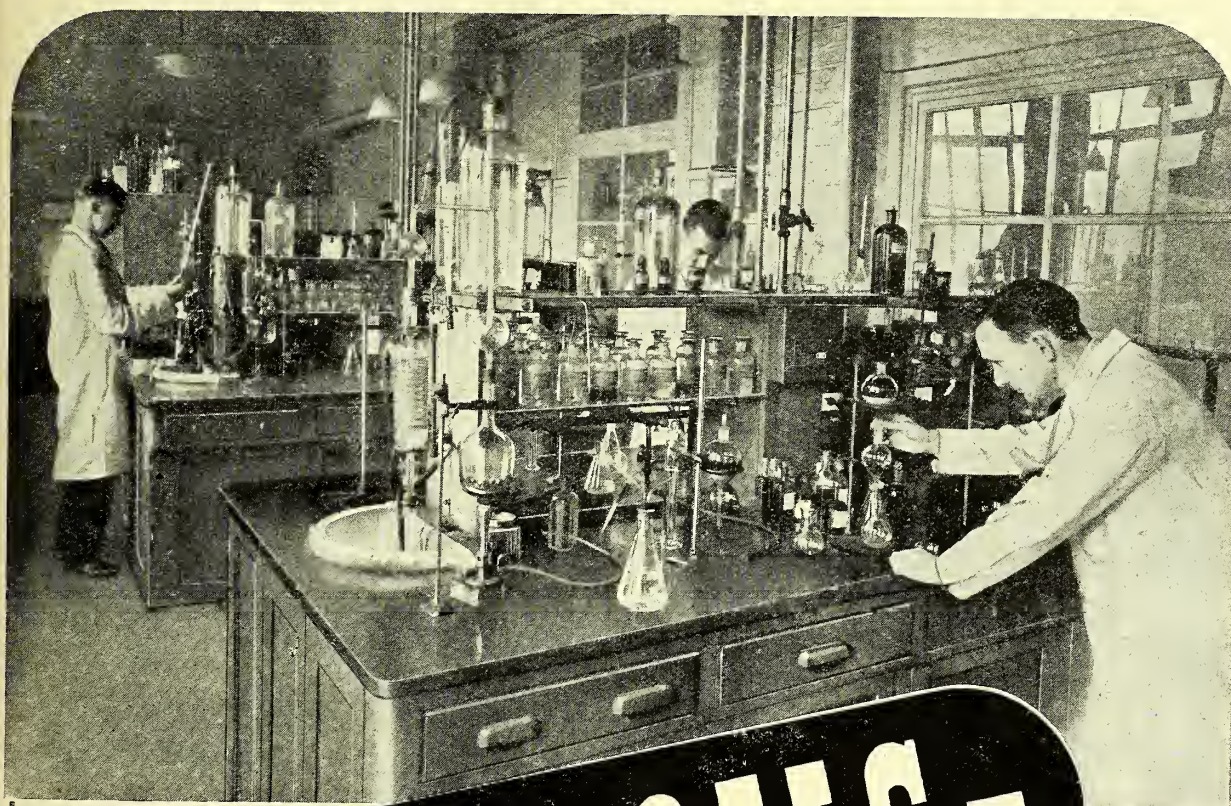
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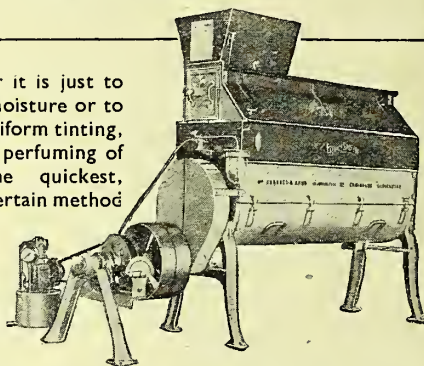
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## NEWS OF THE WEEK

**Money for Travellers to Eire.**—The Treasury announces that an Order (S.R. & O., 1941, No. 96) under the Defence (Finance) Regulations came into force on February 1, enabling travellers to Eire to take sterling notes or Eire pounds up to any amount. The concession does not apply to notes or currency sent through the post.

**Standards for Anti-fire Treatments.**—The British Standards Institution has issued civil-defence standard specifications for treatments to be applied to floors and timber to minimise danger from incendiary bombs. Copies of the specifications (Nos. BS/ARP 39 and BS/ARP 47) may be obtained from the Institution at 28 Victoria Street, London, S.W.1. It is claimed that, if solutions passing the tests are applied to floors and to all timber work above the floor, an incendiary bomb gradually fades out after ten or fifteen minutes. During the period the wooden floor under the protecting material heats up and chars in a small zone, usually of not more than a foot square.

**Molasses and Industrial Alcohol.**—The Minister of Supply has issued the Control of Molasses and Industrial Alcohol (No. 11) Order, 1941 (S.R. & O. No. 101), which comes into force on February 10. All the existing provisions for the control of molasses and industrial alcohol are now brought together in one Order, but apart from increases in maximum prices, no change had been made. The new Order permits certain increases in the maximum prices which may be charged for molasses other than those used solely for the purpose of food for livestock. These increases are occasioned by the advance in the cost of freights. The Order also allows the existing maximum prices for industrial alcohol to be increased by 2½d. per proof gallon, this increase reflecting the higher cost of molasses to the manufacturers. The maximum prices for methylated spirit and for certain solvents have also been increased.

**Imported K.I.D. Chemicals.**—Notice to Importers, No. 112, issued by the Board of Trade, states that hitherto chemicals liable to key industry duty could be imported under an open general licence, except (a) synthetic organic dyestuffs and organic intermediate products used in the manufacture of such dyestuffs, and (b) a number of specified chemicals set out in a list in Notice to Importers, No. 106. This open general licence has now been revoked, the revocation taking effect on February 5, and all chemicals to which it applied will now require separate licences unless they are proved to the satisfaction of H.M. Customs to have been dispatched to this country before February 5 and are imported before April 5, 1941. Applications for licences to import chemicals which now become subject to licence for the first time should be made in duplicate to the following addresses:—*Urea*—Molasses and Industrial Alcohol Control, Great Burgh, Epsom, Surrey; *Acid calcium phosphate (calcium diphosphate)*—Ministry of Food, Room 17, Metropole Hotel, Colwyn Bay; *Molybdenum, tantalum, tungsten and vanadium compounds*—Iron and Steel Control, Steel House, Tothill Street, London, S.W.1; *All others*—Import Licensing Department, Board of Trade, 25 Southampton Buildings, Chancery Lane, London, W.C.2. Applications for licences to import chemicals already subject to licence should be submitted to the addresses shown in Notice to Importers, No. 106, except that applications for

acid sodium pyrophosphate should now be submitted (in duplicate) to the Ministry of Food, Room 17, Metropole Hotel, Colwyn Bay. All applications for licences to import chemicals liable to key industry duty, whether they were previously subject to licence or not, should in future be made in duplicate.

**National Association of Women Pharmacists.**—A luncheon was held at Barbara's Pantry, Holborn, London, on January 26. Among the guests were Mr. J. C. Young (a member of the Society's Council) and Mrs. Young, Mr. F. B. Royal (chairman, Guild of Public Pharmacists), Mr. H. R. Edgecombe and Mr. W. T. Pratt. At the request of many retail members present at the luncheon, the next meeting of the Association has been arranged for the afternoon of Sunday, February 23. Mrs. Marjorie A. Pratt has been co-opted to fill a vacancy on the committee. The election of the Committee of the Association takes place in April. Nominations, in writing, signed by two members, with the consent in writing of the candidate nominated, should reach the secretary, Lewisham Hospital, not later than March 1.

**Nottingham Sends Wire on Co-op Amendment.**—The annual meeting of the Nottingham Branch of the Pharmaceutical Society was held on January 30, Mr. W. A. Atherley presiding and over thirty being present. The meeting stood in silence for a minute in memory of the late Mr. A. E. Eberin. The following telegram was sent to the Society's Council: "That this meeting requests the Council to administer Sections 8, 9 and 10 of the Pharmacy and Poisons Act, 1933, and to oppose the Government's amendment." It was decided also to circularise all branches and members of the Council separately. At a subsequent meeting of the new Committee the following officers were elected: *Chairman*, Mr. J. T. Burrows; *Vice-Chairman*, Mr. G. E. Trease; *Treasurer*, Mr. H. Middleton; *Secretary*, Mr. W. E. Newbold; *Assistant Secretary*, Mr. C. E. Reynolds. It was announced that Sir Walter Langdon-Brown will address a meeting of the Branch in the Great Hall, University College, at 3.15 p.m. on March 6. His subject will be "The Evolution of Therapeutics."

**Society's President at Hull.**—"War-time Problems in Pharmacy" were discussed by Mr. Walter Deacon (president, Pharmaceutical Society) when he visited the Hull Branch of the Society on January 23. About forty members attended. Mr. Deacon referred to the amendment of the Pharmacy and Poisons Act, the formation, at the request of the Government, of a War Committee of the Society, and to experimental work that had been carried out on vitamins for margarine, and also for flour in the "war-time loaf." He appealed for aid to the Society's war distress fund, and a collection was taken during the meeting. Mr. Deacon suggested that chemists in certain areas should pool their resources in view of the shortage of drugs. He referred also to the Society's work in London in connexion with the big hospitals, emergency hospitals, and A.R.P. services. Representatives of the Society in each zone, he said, were co-ordinating the work of the pharmaceutical side of hospital organisation, and he recommended that every help should be given by pharmacists in A.R.P. and hospital organisation in the provinces. Mr. W. E. Naylor (Branch president) was in the chair, and thanks were expressed by Mr. E. A. Brocklehurst and Mr. R. L. Stephens (vice-presidents).



**Inquest.**—At Bridgwater, recently, an inquiry was held into the circumstances attending the death of Miss Muriel Steadman Griffiths, M.P.S. (*C. & D.*, February 1, p. 65). A verdict that death was due to hydrocyanic acid poisoning, self-administered, was recorded.

**Essay Competition Prizewinners.**—Winners for 1940 of the W. H. Saunders essay competition open to students of the Liverpool School of Pharmacy were: 1, R. J. Jones, Carnarvon; 2, N. V. Challinor, Wrexham; 3, G. Mitchell, Ormskirk. The subject of the essay was "Should Pharmacists and Pharmaceutical Students be Exempt from Military Service?"

## IRELAND

**Belfast Deputation on Supplies Limitation.**—A deputation from Belfast Chamber of Trade on January 29 interviewed the Minister of Commerce (Sir Basil Brooke) and pointed out the grave effects of the Limitation of Supplies Order on retail trade. The deputation suggested that the Minister should take steps to ameliorate the position and pointed out that the effect of the restrictions would be widespread unemployment, loss of profits, and hardship.

**Examination Results.**—The following were successful in the examinations held recently by the Pharmaceutical Society of Ireland:—Licence examination: Edward Browne (with honours), T. C. Kelliher (with honours), D. C. Bourke, E. J. Browne, Rosamond M. Colgan, P. J. Crowe, P. J. Dalton, Nora M. Delaney, Timothy Donovan, Jerome Fogarty, Patrick Foley, William Gannon, Peter Kelly, D. J. Kennelly, C. M. McAuliffe, F. P. Ryan, Angela M. Sweeney. Assistants' examination: J. G. Coleman, Patrick Fitzgibbon, A. C. Hennessy, Thomas Jordan, Ellen V. Lynam, M. D. McDonagh, John McEvilly, E. J. Melvin, Michael Moloney, James Morris, M. J. Treacy.

**Irish Drug Association.**—Mr. P. F. McGrath (president) was in the chair at a meeting of the committee of the Irish Drug Association held on January 20. On the motion of Mr. McGrath, seconded by Mr. F. X. Meagher, a vote of sympathy was passed with Mr. David Wolfe on the death of his mother. Mr. McGrath was unanimously re-elected *President* for the current year, with Mr. F. X. Meagher as *Vice-President* and Mr. McLean Lee as *Treasurer*. A discussion took place on the prices of drugs, chemicals, oils, etc., sold in quantities over the counter, and it was decided to hold a special sub-

committee meeting to deal with the matter. A memorandum from the wholesale section, in reply to the Committee's approach concerning advanced prices for packed lines, was discussed and deferred for further consideration. Three new members were elected to the Association. Subscriptions for the current year are now due, and members who have not yet paid same are requested to forward £2 2s. each to the secretary.

**Dublin Dance.**—The thirteenth annual dance, which was held by the pharmaceutical chemists and students on January 30, was patronised by a large gathering of pharmacists and their friends. The committee responsible included Messrs. W. Mullen (chairman), T. Esmonde (secretary), M. Walshe (treasurer), F. Kavanagh (M.C.), P. Rosney, S. Cotter, J. Cosgrove, A. Kerrigan, D. O'Leary, J. Maguire, D. Toohy, W. Prenderville, Misses T. Rooney, S. Dunne, M. Murphy.

Among those present were the Lord Mayor of Dublin (Mrs. K. Clarke), Mr. P. C. Cahill (president, Pharmaceutical Society of Ireland) and Mrs. Cahill, Mr. P. F. McGrath (president, Irish Drug Association) and Mrs. McGrath, Mr. and Mrs. McCauley, Dr. L. Murphy, Mr. and Mrs. J. Treacy, Mr. P. Lalor, Lieut. and Mrs. Manning, Lieut. and Mrs. Kiely, Capt. and Mrs. O'Rourke, Commandant and Mrs. Keogh, Lieut. Moylett, Messrs. D. Lavelle, E. Dowling, T. Jones, Smullen, W. Gardiner, M. Hanna, M. Clarke, S. Boyd, and Hennessy, Dr. Danagher, Messrs. J. O'Reilly, J. Fitzgerald, L. Condon, J. Ryan, M. Hogarty, J. Mulvaney, the Misses F. Sheridan, Smyth, K. Rooney, M. Murphy, J. Bolger, and the Mesdames T. Esmonde, F. Kavanagh, J. Cosgrove, J. Treacy, and D. Toohy, Miss A. Bolger and Miss G. Glynn.

## SCOTLAND

**Business Change.**—Cowlares Co-operative Society, Ltd., has acquired the pharmacy of Mr. John D. Sinclair, M.P.S., 8 Broomknowes Road, Balornack Road, Glasgow. The change-over was made on February 1.

**Official Apothecary.**—Mr. A. E. Kelly, M.P.S., 76 Ratcliffe Terrace, Edinburgh, was, at the annual meeting of the Corporation of Squaremen held in Edinburgh recently, appointed official apothecary of the organisation.

**Retirement.**—Mrs. A. R. Stewart, M.P.S., Blantyre Pharmacy, Glasgow Road, Blantyre, is retiring from business owing to advancing years. Mrs. Stewart, who is eighty-five years of age, qualified in 1904, and assisted her husband in his business in Hamilton until his death. Later, in 1914, she opened the Blantyre Pharmacy.

## TOPICAL REFLECTIONS

**The Bombed and the Intact.**—The "Southampton" scheme for ensuring supplies of goods to the public after the severe bombing of any centre of population (p. 61) supplements, and may replace, the voluntary arrangements already entered into by groups of traders. Wolverhampton chemists were, if my memory serves, the first body to draw up a scheme for the assistance of any of their number whose premises might be so seriously damaged as to render business impossible there; and it was generally agreed at the time that the scheme was an excellent one. Whether such local arrangements will now be wound up in favour of the newer and wider plans remains to be seen: the experience of Southampton will no doubt form a useful guide. It will be noticed that certain conditions for benefiting are laid down in the scheme. That is, no doubt, a reasonable measure of precaution; I venture to hope, however, that it will not involve delay when a time of testing arrives. Chemists' associations will be wise to approach their respective chambers of commerce on the subject without delay.

**Drug Schedules in Canada.**—The existence of differing drug schedules in the provinces of Canada (p. 60) would be a surprising fact if one were not aware of certain differences in the history of these constituent parts of the Dominion. It is time that so vital a matter was taken in hand with a view to securing uniformity of practice, for obvious reasons. The anomaly of enforcing different poisons regulations in different parts of the same country was clearly illustrated in England by a report that I found the other day in looking through a volume of *THE CHEMIST AND DRUGGIST* for the year 1865, a volume full of interesting and sometimes unexpected things. On December 2 of that year the magistrates of Bolton fined a local druggist 5s., with costs, for having sold "a certain quantity of virulent poison—to wit, half an ounce of almond flavour, such sale not being made in the presence of a witness,"

and for "not having at the time of such sale correctly entered in a book the names and addresses of such person and witness, and the nature and quantity of the poison purchased, and the alleged purpose for which it was intended to be used, contrary to the Bolton Improvement Act, 1854." It appeared that the person who purchased the flavouring, ostensibly for use by a confectioner, had committed suicide with it. The case was conducted on a somewhat elaborate scale, and Taylor's "Manual of Medical Jurisprudence" was cited by the solicitors on both sides. The only general Act of Parliament in force at the time regarding the sale of poisons was, it will be remembered, the Arsenic Act of 1851; consequently it was only in a town where a local Act of this kind had been obtained—were there any besides Bolton?—that such a prosecution could be launched.

**Wilson of Tarbolton.**—The statement of the Rev. D. Langlands Seath at the Glasgow Burns supper reported on p. 59, that John Wilson of Tarbolton "acted as the local chemist and druggist," needs qualification. The fact is, as Dr. Thomas Ferguson scathingly remarked in your Annual Special Issue of June 25, 1932 (p. 702), that Wilson "tried to combine the offices of parish dominie and apothecary." The satire of Burns referred to, published in 1785, was entitled "Death and Dr. Hornbrook." Much of this immortal poem is as amusing today as when it was written—the enumeration, for instance, of "cakes o' forsils, earth and trees, True salmarinum o' the seas," and of "mitchorn shavings, filings, scrapings, Distilled per se." An astonishing feature of the sequel was that, as Mr. Seath pointed out, "Wilson took it as a compliment and afterwards, when Burns was famous, sought his help to secure a certain appointment"; for the poet had written of Dr. Hornbrook, "Thus does he poison, kill an' slay, An's weel paid for 't." Wilson's motto was evidently not "Nemo me impune lacessit." **Xrayser**



## COMPANY NEWS

## P.C. means Private Company and R.O. Registered Office

I. E. H. HODGSON, LTD. (P.C.).—Capital £100. Objects: To carry on business as chemists, druggists' sundriesmen, etc. Isaac E. H. Hodgson, director. R.O.: 938 Oxford Road, Reading.

MAY, PARKER & SANDIFORD, LTD. (P.C.).—Capital £1,000. Objects: To carry on business as wholesale chemists, druggists, druggists' sundriesmen, etc. Thomas N. Dixon, 104 Hinds Road, Harrow, director. R.O.: 56 Ludgate Hill, London, E.C.4.

PARKER'S MEDICAL HALL, LTD. (P.C.).—Registered in Dublin.—Capital £500. Objects: To carry on the business of photographic and dispensing chemists, etc. Francis S. Parker and Mrs. Dorothy C. Parker, both of 104 Kincora Road, Clontarf, Dublin, directors.

HILLINGDON SURGICAL INSTRUMENT CO., LTD. (P.C.).—Capital £500. Objects: To carry on business as manufacturers of and dealers in surgical and scientific instruments and appliances. The first directors are to be appointed. Solicitors: Bulcraig & Davis, Amberley House, Norfolk Street, London, W.C.2.

A. J. LEEMING, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a chemist and druggist, etc., carried on by the representatives of the late Alfred J. Leeming, M.P.S., 24 Westgate, Guisborough. Mrs. Angela Leeming and John W. Leeming, M.P.S., both of 24 Westgate, Guisborough, directors. R.O.: 24 Westgate, Guisborough, Yorks.

HARRY OLDHAM, LTD. (P.C.).—Capital £100. Objects: To acquire the business of a chemist and druggist carried on as "Harry Oldham" by Beatrice A. Oldham, at 30 The Mall, Clifton, Bristol. Mrs. Beatrice A. Oldham, 6 Craig Park Terrace, Bowness, Windermere, and Dennis F. Baldwin, M.P.S., 43 Melbury Road, Knowle, Bristol, directors.

R. N. CLARK & CO., LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a chemist, druggist and photographer carried on at Market Place, Carlisle, by Peter Simpson, M.P.S., as "H. Sawyer, Ltd." Robert N. Clark, M.P.S., and Helen V. Clark, both of 1 River Street, Carlisle, directors. Solicitors: Bendle, Sibson & Davidson, Carlisle.

WILLIAM DICKSON (CHEMISTS), LTD. (P.C.).—Capital, £500. Objects: To acquire the business of a chemist carried on at 86 Quarry Street, Hamilton, as "William Dickson," by the representatives of William Dickson. Mrs. Mary J. Dickson, 72 Union Street, Hamilton, and Robert P. Prentice, 153 Hamilton Road, Mount Vernon, Lanarkshire, directors. R.O.: 86 Quarry Street, Hamilton, Lanarkshire.

MEDICAL SUPPLIES (BRENTFORD), LTD. (P.C.).—Capital £100. Objects: To carry on business as manufacturers of and dealers in chemical, pharmaceutical and other preparations. Arthur B. Walters, 94 Cambridge Road, London, S.W.20; John Walters, 47 Willbury Grange, Hove, Sussex; and Richard Walters, 19 Queensbury House, Richmond, Surrey, directors. R.O.: Brentford Bridge, Middlesex.

SMITH, STANISTREET & CO., LTD.—Directors' report and balance sheet for the financial year ended June 30, 1940, shows that, after providing for depreciation and all other charges a credit balance of rupees 142,599 is available, which, it is recommended, should be dealt with as follows: Dividend on 10 per cent. preference shares, free of income tax, rs. 50,000; dividend on the ordinary shares at four annas per share (100 per cent. per annum), free of income tax, rs. 25,000; forward to next account, rs. 67,599.

**Bankruptcy.**—EDWIN ALBERT TIPPEN, M.P.S., Park House, Park Way, Maidstone, and Grange Pharmacy, 1 High Street, Westerham, Kent. Debtor's public examination was held recently at Tonbridge, when statement of affairs disclosed gross liabilities of £397, of which £364 was expected to rank for dividend, with assets of £360, or a deficiency of £4. Debtor commenced trading at Maidstone, but subsequently sold the business and started a similar concern at 1, High Street, Westerham. Since June last the turnover had declined. Failure was ascribed to adverse trading conditions due to the war, to shortage of capital, and to insufficient profits to meet expenses. The hearing was adjourned to enable the debtor to furnish certain fuller accounts.

## STOCK EXCHANGE PRICES

| £1 shares unless otherwise stated                                     | Dec. 29<br>1939 | Dec. 30<br>1940 | Jan. 30<br>1941 |
|-----------------------------------------------------------------------|-----------------|-----------------|-----------------|
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| Amalgamated Dental Co., 8% Prefd. Ord. . .                            | 22 3            | 16 0            | 15 1½           |
| Aspro, ss. . .                                                        | 8 6             | 5 0             | 4 0             |
| Ayrton, Saunders & Co., 7½% Pref. . .                                 | 11 3            | 13 0            | 13 0            |
| Beechams Pills, Deferred 2s. 6d. . .                                  | 21 9            | 17 9            | 17 9            |
| Benger's Food, Ord. . .                                               | 8 1½            | 8 6             | 8 6             |
| Benzol & By-Products, Cum. Particip. Pref. . .                        | 17 0            | 20 6            | 23 6            |
| Berger, Lewis, & Sons, Ord. . .                                       | 20 6            | 14 4½           | 15 4½           |
| Boots Cash Chemists (S.), 6% "A" Prefd. . .                           | 41 3            | 38 9            | 42 0            |
| Boots Pure Drug Co., Ord. 5s. . .                                     | 25 9            | 24 6            | 24 0            |
| " " " " 7% "A" Pref. Ord. . .                                         | 39 9            | 38 0            | 38 6            |
| Borax Consolidated, Deferred Ord. . .                                 | 28 0            | 27 0            | 27 0            |
| Bovril, Ord. . .                                                      | 25 0            | 25 7½           | 28 3            |
| " Deferred . . .                                                      | 23 6            | 23 6            | 24 6            |
| British Drug Houses, The, Ord. . .                                    | 20 10½          | 22 3            | 23 9            |
| British Glues & Chemicals, Ord. 4s. . .                               | 21 9            | 21 3            | 22 4½           |
| British Industrial Plastics (formerly British Cyanides), Ord. 2s. . . | 6 3             | 6 3             | 6 6             |
| British Oil & Cake Mills, Prefd. Ord. . .                             | 2 1½            | 2 4½            | 2 5½            |
| British Oxygen Co., Ord. . .                                          | 39 0            | 34 0            | 35 6            |
| British Photo Industries, 6% Cum. Pref. . .                           | 71 3            | 63 9            | 66 3            |
| Burt, Boulton & Haywood, Ord. . .                                     | 3 0             | 2 3             | 2 0             |
| Bush, W. J., & Co., 5% Pref. £5 . .                                   | 15 0            | 11 3            | 11 3            |
| Callard, Stewart & Watt, Ord. . .                                     | 82 6            | 90 0            | 90 0            |
| Cooper, McDougall & Robertson, Ord. . .                               | 1 6             | 1 0             | 6               |
| Crosfield, Joseph, & Sons, 6½% Pref. . .                              | 20 6            | 20 0            | 19 6            |
| Dubarry Perfumery, Ord. 1s. . .                                       | 24 6            | 24 0            | 26 3            |
| Evans Sons Lescher & Webb, Ord. 6s. 8d. . .                           | 2 0             | 1 3             | 1 0             |
| Evans Sons Lescher & Webb, 6% Cum. Particip. Pref. . .                | 2 6             | 2 6             | 2 6             |
| Field, J. C. & J., Ord. . .                                           | 5 0             | 5 3             | 5 9             |
| Galloway, P.H., Ord. 2s. . .                                          | 22 6            | 20 0            | 20 0            |
| " " " " 7½% Cum. Pref. . .                                            | 2 6             | 1 3             | 1 6             |
| Genatosan, 1s. shares . . .                                           | 20 0            | 21 3            | 20 0            |
| Gossage, William, 6½% Pref. . .                                       | 5 1½            | 5 6             | 5 6             |
| Greeff-Chemical Holdings, Ord. 5s. . .                                | 25 6            | 23 9            | 26 3            |
| Griffiths Hughes (Kruschen), Ord. . .                                 | 5 0             | 6 0             | 6 0             |
| Groult & Co., Ord. . .                                                | 6 4½            | 7 0             | 6 10½           |
| Hodders, Ord. 1s. . .                                                 | 13 0            | 11 0            | 10 6            |
| Ilford, Ord. . .                                                      | 0 7½            | 0 5½            | 0 6             |
| " " " " 6% Pref. . .                                                  | 22 3            | 24 9            | 25 0            |
| Imperial Chemical Industries, 7% Pref. Ord. . .                       | 21 9            | 22 6            | 22 6            |
| International "Sponge" Importers, 6% Pref. . .                        | 30 0            | 33 0            | 33 0            |
| Knight, John, 25% Prefd. Ord. . .                                     | 30 4½           | 29 9            | 30 0            |
| Laporte, B., & Co., Ltd., Ord. . .                                    | 5 0             | 5 0             | 5 0             |
| Lever Bros., 7% Pref. . .                                             | 78 9            | 66 3            | 65 0            |
| " " " " 8% Pref. . .                                                  | 60 0            | 52 6            | 56 3            |
| " " " " 20% Prefd. 5s. . .                                            | 25 0            | 26 0            | 27 3            |
| Lewis & Burrows, Ord. . .                                             | 25 9            | 25 0            | 25 9            |
| " " " " 6% Pref. . .                                                  | 15 6            | 15 0            | 15 0            |
| Liebig's Extract of Meat, Ord. £5 . .                                 | 20 0            | 10 0            | 10 0            |
| Macleans, 6% Red. Pref. . .                                           | 18 9            | 11 3            | 11 3            |
| Mellin's Food, 6% Pref. . .                                           | £16½            | £12             | £12½            |
| Nathan, J., & Co. (Glaxo), 7% Pref. . .                               | 19 0            | 21 0            | 21 3            |
| " " " " 8% Prefd. . .                                                 | 1 3             | 1 0             | 1 10½           |
| " " " " 10s. . .                                                      | 21 9            | 18 6            | 20 0            |
| Pears, A. & F., 5% Deb. £100 . .                                      | 10 3            | 8 9             | 9 6             |
| Reckitt & Sons, Ord. . .                                              | 3 6             | 11 9            | 12 6            |
| Sangers, Ord. 5s. . .                                                 | £97½            | £97½            | £98             |
| Sanitas Co., The, 9% Pref. . .                                        | 96 3            | 90 0            | 90 0            |
| Sanitas Trust, 10% Particip. Pref. . .                                | 20 0            | 18 9            | 18 3            |
| Smith, Stephen, & Co., Ord. 5s. . .                                   | 22 6            | 22 0            | 22 6            |
| Spratt's Patent, Ord. . .                                             | 22 6            | 22 6            | 22 3            |
| Stevenson & Howell, 6½% Cum. Pref. . .                                | 8 3             | 8 7½            | 8 3             |
| United Glass Bottle Manufacturers, Ord. . .                           | 43 6            | 36 3            | 36 3            |
| Veno Drug Co., 8% Pref. . .                                           | 22 6            | 20 0            | 20 0            |
| Virol, Ord. . .                                                       | 51 3            | 46 3            | 46 3            |
| " " " " 7% Pref. . .                                                  | 22 6            | 22 9            | 23 6            |
| Vitamins, 1s. shares . . .                                            | 25 0            | 25 0            | 25 0            |
| White, A. J., Ord. 10s. . .                                           | 23 6            | 20 6            | 20 7½           |
| White, Timothy, & Taylors, 7½% Pref. . .                              | 4 3             | 3 6             | 3 3             |
| Wright, Layman & Umney (1932), 7% Cum. Pref. . .                      | 13 3            | 11 3            | 12 6            |
|                                                                       | 26 3            | 24 9            | 25 0            |
|                                                                       | 22 6            | 19 6            | 19 3            |
|                                                                       | 23 1½           | 19 6            | 19 6            |

NOTE.—The shares of J. Nathan & Co. (Glaxo), Ord., were formerly 1s.



# NATIONAL PHARMACEUTICAL UNION

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on January 28, Mr. J. Hearle in the chair.

**N.P.U. Affairs.**—The Executive Committee directed the secretary to convey its congratulations to Mr. A. Mortimer (secretary, Wholesale Drug Trade Association) on his having had the O.B.E. conferred upon him. The secretary presented his report to the Executive on the various matters which had arisen since the last meeting. These were considered by the Executive and included negotiation with the proprietary medicine manufacturers regarding medicine stamp duty; the retailing by co-operative societies of medicinal goods through branches other than their pharmacy departments; and the Limitation of Supplies Order. A financial report of the position of the Air Raid Assistance Fund was also received. There were at the present time 230 "first-aid" repair claims outstanding and thirty uncompleted closure claims. The approximate amount required to settle these outstanding claims was estimated at £2,536. The Executive confirmed the new arrangement which placed the fund on a quarterly basis. The secretary submitted a financial report of the War Distress Fund for the five months ended December 31, 1940. The balance of the fund now stands at £15,630. The Manchester Pharmaceutical Committee submitted particulars of a scheme which provided for the collection of regular contributions for the fund. The scheme involved the setting aside of the sum of 1d. for each £1 of every chemist's N.H.I. account, the money to be remitted periodically to the War Distress Fund. The Executive thanked the Manchester Pharmaceutical Committee for the adoption of this scheme in their area. The Glamorgan Pharmaceutical Committee sent a resolution suggesting the adoption by all Pharmaceutical Committees of the scheme suggested by the Manchester Committee.

**N.H.I. Matters.**—The Executive received with regret the resignation of Mr. W. Lee from the Central N.H.I. Committee. Mr. Sparshott was appointed in his stead. The Executive considered the question of increased N.H.I. remuneration in conjunction with resolutions received from Pharmaceutical Committees, and decided that the time had arrived when the chemists' remuneration should be reconsidered. Mr. A. R. Melhuish was appointed as representative of the N.P.U. on the advisory committee which was being set up by the Ministry of Health to compile a War-Emergency Formulary. It was decided to hold the usual triennial election of the N.P.U. Executive as the term of office of the Executive expires on March 31, 1941.

**C.D.A. Matters.**—The secretary reported that although there had been no developments in seven of the outstanding claims, they could not be regarded as having been withdrawn, and the directors decided to leave them in the hands of the secretary for attention. Only one case had been settled since the previous meeting of the directors, this being a claim for personal injuries to a passer-by who was injured by an outside sign falling from a member's premises. Eight other claims against members had been recorded during the past month and it was reported that negotiations were proceeding. It was reported that a member had been defended against a summons under the Prices of Goods Act arising out of a sale of potassium permanganate. Two other members had been defended against summonses under the lighting restrictions.

**Chemists' Friends Council.**—A meeting of the C.F. Council was held at 4-5 Queen Square, London, W.C.1, on January 21, with Mr. I. V. L. Fergusson, the newly-appointed president, in the chair. The following members were present: **Manufacturers' Representatives.**—Mr. J. D. Bohn, Mr. I. V. L. Fergusson, Mr. L. Boon, Dr. S. Brook; **Wholesalers' Representatives.**—Mr. A. McDonald, Mr. F. J. Smith; **Retailers' Representatives.**—Messrs. Atkinson, Brocklehurst, Heseltine, Hearle, Marshall and Stearn. The Council received a report regarding the election of wholesalers' representatives to the C.F. Council for 1941 which resulted in the following representation: **Section A.**—May, Roberts & Co., Ltd., Sangers, Ltd., James Woolley, Sons & Co., Ltd.; **Section B.**—Gale, Baiss & Co., Ltd., London. J. Brooks & Co., Ltd., were also nominated to represent Section B, but owing to the difficulties of travel were unable to accept nomination.

The following officers were elected for the ensuing year:—

**President,** Mr. I. V. L. Fergusson; **Vice-President,** Mr. J. Hearle; **Treasurer,** Mr. R. Peck. The following were elected to the propaganda committee for the ensuing year:—Dr. S. Brook, Mr. E. C. Cripps, Mr. T. Heseltine, Mr. A. S. J. Painter, Mr. S. J. Stearn, Mr. W. J. Tristram, together with the president, vice-president, and treasurer as *ex officio* members. The Council approved an application for inclusion in the C.F. list from Unichem, Ltd., 219 Upper Tooting Road, London, S.W.17.

**N.P.U. War Distress Fund.**—The following further donations of one guinea and over were received for the War Distress Fund of the National Pharmaceutical Union during the period December 18 to January 22.

**Wholesalers and Manufacturers.**—The Wholesale Drug Trade Association, £262 10s.; Parke, Davis & Co., £105; C. E. Fulford, Ltd., £100; Milton Proprietary, Ltd., £26 5s.; Elliman, Sons & Co., Ltd., £25; J. T. Davenport, Ltd., £21; Mentholatum Co., Ltd., £10 10s.; Thomas Marns, Ltd., £10 10s.; Ernest Jackson & Co., Ltd., £10; Oystrex, Ltd., £5; General Optical Co., Ltd. (further donation), £2 2s.; Mothersill Remedy Co., Ltd., £2 2s.

**Retailers.**—N.P.U., Worcester City and County Branch (per C. Essington Gedge), £46; Cumberland chemists (per T. T. Townley), £20; Neave & Lea, Witney, £10; Warwickshire Branch, N.P.U., £6 15s.; Walthamstow Branch, N.P.U., £5 17s. 6d.; G. R. Smeddles, Barrow-in-Furness, £5 5s.; Gerald Morris, Ltd., Rochester, £5 5s.; F. C. Davison, East Kirkby, £5 5s.; G. H. C. Rowland, Wargrave, £5; H. Hocken, Ltd., Redhill, £5; F. W. Whitwell, Ltd., Peterborough, £5; A. S. Ronchetti, Amphil, £5; W. S. Hunter, Bristol, £5; J. N. Sampson, Redhill, £5; W. L. Bixter, Ltd., Prescott, £5; Harry J. Saunders, Cardiff, £5; Bannerman, Ashton & Co., Ltd., Portsmouth, £5; C. W. Hobson, Sheffield, £5; Milo Turner, Tamworth, £5; D. A. Bryan, Penmaenmawr, £3 3s.; Coventry N.P.U. Branch (per H. Knight), £3 3s.; Freemans Chemists & Opticians, Ltd., Altrincham, £3 3s.; Edgar Jones, Brighton, £3 3s.; Hartlepool pharmacists, £3 2s. 6d.; J. Hearle, London, N.1, £3 1s. 6d.; James L. Bradley, Leicester, £3; R. F. Turner, Ferndown, £2 10s.; G. Waddington, Buxton, £2 10s.; A. T. Fraser Betts, Sandown, £2 10s.; C. H. Smith, West Bromwich, £2 2s.; H. A. Blades, Llandudno, £2 2s.; A. E. Axtell, Oxford, £2 2s.; A. J. Campbell, Slough, £2 2s.; A. R. Jesson, Mansfield Woodhouse, £2 2s.; W. A. Shaw, Birmingham, £2 2s.; W. T. Graham, London, E.12, £2 2s.; J. S. Craven, Cleckheaton, £2 2s.; Walter Pickering, Ltd., Bishop Auckland, £2 2s.; W. Gill, Nottingham, £2; Mrs. H. M. Lavender, Woking, £2; H. Burns, Retford, £2; W. Black, Forest Row, £2; "Ossian", £2; J. Williamson & Co., Dundee, £2; Alan C. Pollard, Tetbury, £1 5s.; S. G. W. Farthing, London, S.E.15, £1 1s.; C. H. Milburn, Wetherby, £1 1s.; W. Burgess Dow, London, N.10, £1 1s.; Howard W. Bryan, Bristol, £1 1s.; Cosnell, Ltd., Slough, £1 1s.; C. Nicolson, Sealloway, £1 1s.; James H. Hay, Croydon, £1 1s.; A. J. Freeman, Whitefield, £1 1s.; Herbert Jackson, Sandiacre, £1 1s.; W. Lloyd, Colwyn Bay, £1 1s.

## TRADE-MARK APPLICATIONS

(From "The Trade Marks Journal," January 1, 1941)

- "STYROPLAS"; for industrial chemicals (1) (IV). By F. A. Hughes & Co., Ltd., Abbey House, Baker Street, London, N.W.1. 613,229.
- "PUITEX"; for pharmaceutical preparations (5) (IV). By Merz & Co., Ltd., 8 Southampton Place, Holborn, London, W.C.1. 612,335.
- "SCOBENOL"; for pharmaceutical preparations (5) (IV). By Boots Pure Drug Co., Ltd., 37 Station Street, Nottingham. 612,996.
- "PECTEVAN"; for pharmaceutical and veterinary preparations (5) (IV). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool, L. 613,158.
- "PA-go"; for blotting paper pads to dry razor blades (16) (IV). By P. Goldschmidt, 8 Holly Road, Edgbaston, Birmingham, 16. 611,632.

CONVERSION OF SPECIFICATION  
Section 36 (3) and Rules 6 to 8

To Schedule IV (with amalgamation): No. 351,806, by Tyson & Co., Ltd.

(From "The Trade Marks Journal," January 8, 1941)

- "FOSLOLINE"; for calcium oxide (1) (IV). By Cotswold Lime & Limestone, Ltd., 3 Quay Street, Gloucester. 613,276 (Associated).
- "PILGRIM"; for pharmaceutical, veterinary and sanitary substances, plasters, dental preparations, disinfectants, weed-killers, etc. (5) (IV). By H. J. Wade & Co., Ltd., Pilgrim House, Limbrick, Blackburn. 612,367.
- "STEROS"; for germicides and vermin-killers (5) (IV). By Associated Fumigators, Ltd., 112 Victoria Dock Road, London, E.16. 613,218.
- "BRYAL"; for surgical, medical, dental and veterinary instruments, etc. (10) (IV). By the British Aluminium Co., Ltd., Adelaide House, King William Street, London, E.C.4. 613,066 (Associated).
- "SUNSPOT"; for citrus fruit juices (32) (IV). By The British Citrus Juice Co., 20 Mark Lane, London, E.C.3. 604,093.

CONVERSION OF SPECIFICATIONS  
Section 36 (3) and Rules 6 to 8

To Schedule IV (with amalgamation): Nos. 44,906/7, by W. Gossage & Sons, Ltd., and No. 222,984, by T. Hedley & Co., Ltd.



## EMPIRE AND FOREIGN NEWS

**Vitamins for Britain from U.S.A.**—A Vitamins-for-Britain Committee has been formed in the United States to provide for British children sweets containing vitamins A, B, C and D. It is hoped to send over 1,000,000 tablets monthly.

**Hospital Experience for Kansas Pharmacy Students.**—The Dean of the Kansas University School of Pharmacy has arranged for senior students at the school to spend one week each term in a hospital pharmacy, where they will dispense prescriptions under the supervision of a registered pharmacist for eight hours each day.

**Self-service Drug Ban in Maryland.**—The Maryland State Board of Pharmacy has refused to grant permits for the operation of a self-service pharmacy. The Board takes the view that the protection the State's Pharmacy Act was meant to give the public is not provided when the "self-service" methods of distribution are adopted.

**Indian Chemical Manufacturers' Association.**—The second annual general meeting of the Association was held on October 3, 1940, Sir P. C. Ray in the chair. Mr. J. N. Lahiri (vice-president) read the presidential address. The following officers were appointed: *President*, Raj Mitra, B.D., Amin.; *Committee*, Mr. J. N. Lahiri, Capt. N. N. Dutta, Mr. Mohamed Hanif, Mr. Madenlal, H. Vakil, Mr. B. Maitra, Dr. H. Ghosh, Mr. R. L. Nopany, Dr. B. N. Ghosh, and Dr. B. C. Das.

## PARLIAMENTARY NEWS

**National Health Insurance Benefits Unchanged.**—Mr. E. Smith asked the Minister of Health whether he was aware of the urgent need to increase the benefits paid through National Health Insurance, when action was to be taken, and the approximate increase that would be made. Mr. M. MacDonald replied that he had explained on October 17, 1940, why consideration of this problem had been suspended for the time being. The Secretary of State for Scotland and himself had this question again under urgent examination.

**Scabies Not to be Made Notifiable.**—Major-General Sir Alfred Knox asked the Minister of Health, on January 23, whether he would consider making regulations to provide for the notification of scabies.

MR. M. MACDONALD: I understand that scabies is a skin condition produced by the burrowing into the skin of a parasite. It is not therefore an infectious disease in the accepted sense. Many cases never come under the notice of a doctor. In these circumstances, I am advised that compulsory notification is not the most suitable method of dealing with the problem.

**Liquid Milk for Trade Users.**—Mr. Stokes asked the Parliamentary Secretary to the Ministry of Food, on January 28, what quantity of liquid milk produced during December 1940 would go to consumers other than the liquid milk consumers; and what price would be paid for it.

MAJOR LLOYD GEORGE: While it is not in the national interest to publish detailed figures of milk production and utilisation . . . little milk during December was supplied to other than liquid milk consumers. Any milk manufactured into condensed milk or milk powder was sold at the manufacturing price of 1s. 7d. per gallon. . . . In a few cases manufacturers of certain prepared foodstuffs and beverages obtained trifling quantities for which they paid the full liquid price of 2s. 0½d. per gallon.

**West African Cocoa Crop.**—Mr. David Adams asked the Under-Secretary of State for the Colonies, on January 29, whether, as an alternative to burning, it had been decided to store or process the second war-time crop of cocoa in West Africa upon the spot, for release after the war. Mr. George Hall replied that only small quantities of the previous season's crop had been destroyed, and these were of a quality unsuitable for storage. The possibility was being considered of storing surplus cocoa of good quality from this season's crop. Storage accommodation existed in West Africa for eight months' normal requirements of the European markets now cut off by the blockade. There were practical difficulties in the way of obtaining the necessary machinery for the purpose of processing in West Africa.

**Imported Drugs.**—On January 30, Sir Francis Fremantle asked the Minister of Health what steps had been taken to limit the prescription by medical practitioners of non-

essential imported drugs, and the sale of such drugs as ingredients in proprietary medicines, and to suggest alternatives produced in this country. The Minister (Mr. MacDonald) stated that a Defence Regulation had been made on this subject and its details would be published in the course of the next few days. Sir Francis Fremantle further asked the Minister to see that the results of the inquiry were brought home in a practical and useful form to the general practitioners and the panel practitioners. The Minister replied that he intended to give general advice to the general practitioners in the matter and details of the matter would appear in the medical journals. The Minister assured the questioner that general practitioners would be provided with suitable alternative materials which they could prescribe.

**Influenza Epidemic Statistics.**—Sir F. Fremantle asked the Minister of Health, on January 23, what evidence there was of any general epidemic of influenza; what was its extent compared with that of 1940 and of the last war; what was the likelihood of prevalence in the next few months; and what steps were being taken to deal with the more serious possibilities.

MR. M. MACDONALD: There is no evidence at present of any general epidemic of influenza. In the 126 major cities and towns of England and Wales during the four weeks ended January 13, 1939-40, there were respectively 27, 45, 94 and 158 deaths from influenza. The comparable figures 1940-1941 were 30, 40, 53 and 74. I shall be glad to provide the hon. Member with the numbers of influenza deaths during the last war as soon as possible. It is impossible to estimate with any precision what the incidence of the disease may be in the coming months, but past experience suggests that, unless a sudden marked increase in the number of deaths from influenza occurs in the near future, a serious epidemic will not supervene. All practicable steps have, however, been taken to deal with the more serious possibilities.

**Vitamin B<sub>1</sub> in Bread.**—Mr. De la Bère asked the Parliamentary Secretary to the Ministry of Food, on January 22, whether he could give an approximate estimate of the cost to the nation of introducing vitamin B<sub>1</sub> into bread for a full twelve months. Mr. Harcourt Johnstone replied that the cost could not be stated but was not expected to exceed one-tenth of a penny per quartern white loaf. Sir E. Graham-Little asked, on the same day, on what licence from the German I.G. of patents for the manufacture of vitamin B<sub>1</sub> the Government was relying for the right to manufacture this product; and why, in view of the war, any such licence was required to operate a German patent. Mr. Johnstone replied that the Government had not undertaken the manufacture of vitamin B<sub>1</sub>, but would for the present obtain supplies from a firm of chemical manufacturers which had the right to use patents Nos. 471,416 and 475,595, covering inventions made by the I. G. Farbenindustrie. Bayer Products, Ltd, of Africa House, Kingsway, were the registered proprietors of both patents in this country. Replying to a supplementary question he stated that the Minister was aware of two firms, in addition to Roche Products, Ltd., which had begun to make plans for the manufacture of vitamin B<sub>1</sub>.

On January 23, Mr. Stokes asked the Parliamentary Secretary to the Board of Trade, as representing the Ministry of Food, whether he was aware that one ounce of wholemeal bread contained twenty-five to thirty units of vitamin B; and whether he would state how many units of synthetic vitamin B it was proposed to introduce into the white flour necessary for one ounce of white bread? Mr. Johnstone, who had been asked to reply, said the Minister was advised that wholemeal bread made from a 100 per cent. extraction flour contained about twenty-eight units of vitamin B<sub>1</sub> per oz., but that bread made from such flour is not fully digested. Bread made from flour of 85 per cent. extraction, which it had been decided to adopt as the minimum for a wholemeal flour, would contain about twenty units of vitamin B<sub>1</sub> per oz. It was proposed to add vitamin B<sub>1</sub> to white flour in sufficient quantity to raise the vitamin B<sub>1</sub> content of white bread also to twenty units per oz.

## COMING EVENTS

Wednesday, February 12

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Gordon Restaurant, Glasgow, at 8 p.m. Meeting.

MANCHESTER PHARMACEUTICAL ASSOCIATION, Inward Hall, Deansgate, at 3 p.m. "Fifteen Minute Papers" by members.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN, 17 Bloomsbury Square, London, W.C.1, at 2.30 p.m. Mr. E. Saville Peck, D.L., M.A., Ph.C. (a member of the Society's Council), on "Early English Materia Medica Cabinets in Cambridge."



## TRADE NOTES

"C. & D. YEAR BOOK."—Under the heading "Analgesic Tablets" in the Buyers' Guide Section of the *C. & D. Year Book*, 1941, the product of W. J. Rendell, Ltd., should read "Mensinole" and not as printed.

AMPOULE FILES.—Dominion Steel Corporation, Ltd., Fleet Works, Queen's Road, Sheffield, 2, are in a position to manufacture, and can supply, large quantities of ampoule files, and inquiries regarding these products are invited.

NATIVELE'S DIGITALINE TABLETS.—Wilcox, Jozeau & Co., Ltd., 74-77 White Lion Street, London, N.1, publish the approved permitted prices for Nativele's Digitaline tablets elsewhere in this issue. These revised prices apply only to goods of American origin; outstanding stocks of French manufacture should be sold at the existing prices.

COSMETICS.—In recent years many new emulsifying agents have been introduced in the manufacture of cosmetics, the same applies to perfumes used in such products, and A. Boake, Roberts & Co., Ltd., Abrac Works, London, E.15, are in a position to supply these essential ingredients of cosmetics, of which full details can be obtained on application.

CHEMICAL FIRM'S NATIONAL SAVINGS GROUP.—Whiffen & Sons, Ltd., Aldersgate Chemical Works, Carnworth Road, Fulham, London, S.W.6, inaugurated in February 1940 a National Savings group on a thirty-week subscription basis, and groups have been formed successively as they were completed or when sufficient subscribers were available. An average of £8 10s. per head of total employees has been collected.

"OWN NAME" LABELS.—The Limitations of Supplies Orders and other restrictions have resulted in a large increase in the number of lines being packed by chemists as "own name" specialities. This has created a demand for various containers and labels, an excellent range of which is available from Thomas Waide & Sons, Ltd., Kirkstall Hill, Leeds. Many of the labels can be supplied from stock, but exclusive designs will be prepared if required.

COLLOSOL MERCURY SULPHIDE.—The Crookes Laboratories (British Colloids, Ltd.) have issued a note giving the findings of recent tests on Collosol mercury sulphide, a mercury compound which is claimed to be without the disadvantages of the older mercurials since its association with sulphur assists both absorption and elimination of the toxic metal. No local reaction, they state, has ever been reported. The material is easily injected, and no sedimentation or blocking of the needle can take place because the preparation is a true colloidal suspension.

TRADE LITERATURE.—A leaflet describing the uses and administration of Diphenan, B.D.H. (*p*-benzylphenyl carbonate), a non-toxic anthelmintic, has been issued by THE BRITISH DRUG HOUSES, LTD., Graham Street, City Road, London, N.1.—CONTINENTAL LABORATORIES, LTD., Brunel Road, East Acton, London, W.3, have re-issued their trade price list with full details of the price alterations necessitated by the addition of purchase tax.—The 127th number of "Potter's Bulletin" (January 1941), a publication issued by POTTER & CLARKE, LTD., London and Manchester, contains forty pages of articles, information tables, a catalogue of packed goods, and a useful list of medical, botanical and other technical books.

TIN-FILLING APPARATUS.—John P. Jackson & Co., Ltd., engineers and coppersmiths, 11 Earle Street, Liverpool, 3, are makers of machinery for filling cream, etc., into shallow tins, bottles, or jars. The Acme filling machine has a two-gallon tank which can be supplied jacketed for water heating, and can be moved forward or across, as well as raised or lowered to any desired height. The method of operation is to place the receptacles in trays, and, after all have been filled, to place another set of trays, ready charged with tins, on top of the first lot, again filling from the tank. This operation can be repeated to the maximum height that the machine will take. The valve controlling the outlet material has a quick cut-off, allowing filling to within close limits. The tank is detachable. Ironwork or tanks can be supplied separately.

### Business Changes

BOOTS, LTD., are taking over the pharmacy of Mr. R. H. Evans, M.P.S., Station Crescent, Llandrindod Wells.

THE TRADING WITH THE ENEMY BRANCH (Treasury and

Board of Trade) has removed to 24 Kingsway, London, W.C.2. Telephone: Holborn 4300.

A. F. Wood, general warehousemen, 18 Dover Street, Canterbury, announce that until further notice the business is being conducted by Mrs. N. L. Wood. Mr. A. F. Wood is at present serving in the Royal Air Force.

### Proprietary Articles Trade Association

**Additions to Protected List.**—(Unless otherwise stated, all prices include purchase tax.) *Falconer & Co., Ltd.*—Falconer's Golden compound, 2s. 3d., 22s. 2d., doz.; twelve doz., 18s. doz., plus tax. Prices in Northern Ireland: 2s., 19s. 3d. doz.; twelve doz., 15s. 9d. doz., plus tax. *Splendor, Ltd.*—Cro-Pax brand foot aids: No. 45, 3½d., 2s. 6d. doz.; No. 111, 5d., 3s. 6d. doz.; No. 20, 4d., 2s. 6d. doz.; Nos. 13, 13Z, 14, 14Z, 15, 15Z, 113, 213, 7d., 4s. 6d. doz.; Nos. 8, 16, 30, 50, 70, 7½d., 5s. 6d. doz.; No. 36, iodised foot-massage cream, 7½d., 5s. 6d. doz.; No. 37, Foot-foam bath salts, 7½d., 5s. 6d. doz. The following are exempt from tax: No. 9, 6d., 4s. 6d. doz.; Nos. 17, 18, 21, 6d., 3s. 6d. doz. *A. Wander, Ltd.*—Wander brand malt extract, 1-lb., 1s. 4d., 10s. 9d. doz.; 2-lb., 2s. 5d., 19s. 6d. doz.; 4-lb., 4s. 10d., 37s. doz.; 7-lb., 8s. 10d., 64s. 3d. doz.; Wander brand malt extract with cod liver oil: 1-lb., 1s. 6d., 11s. 10½d. doz.; 2-lb., 2s. 9d., 21s. 9d. doz.; 4-lb., 5s. 5d., 41s. 6d. doz.; 7-lb., 9s. 2d., 71s. 7½d. doz., both products exempt from tax.

**Corrections.**—*Glavo Laboratories, Ltd.*—In the altered prices notified in last week's issue, Prepalin products were stated to be exempt from purchase tax. The manufacturers now advise that they are still subject to the tax. The exempted articles are now as follows: Ostomalt; Maltoline; Maltoline with Iron. *Dinneford & Co., Ltd.* (selling agents: *Macleans, Ltd.*)—Dinneford's magnesia and tablets: Fluid, 1s. 5d., 14s. doz.; 2s. 10d., 28s. doz.; tablets, 7d., 5s. 5d. doz.; 1s. 1½d., 10s. 6d. doz. Display-parce items are available either when products are purchased by themselves or when ordered in addition to Macleans display parcels. Full particulars on application. *Holloways Pills, Ltd.* (selling agents: *Macleans, Ltd.*)—Holloways brand pills and ointment: Unstamped, pills, 3½d., 2s. 8d. doz.; pills and ointment, 1s. 5d., 13s. 1½d. doz.; pills and ointment, 3s. 5d., 31s. 6d. doz.; pills (eighty-two rd. screws each containing three pills), 5s. 6d., 57s. 2d. doz.; ointment, 5s. 8d., 52s. 6d. doz. Stamped pack: Pills and ointment, 1s. 5d., 13s. 8½d. doz.; pills and ointment, 3s. 5d., 32s. 8d. doz.; pills (eighty-two rd. screws, each containing three pills), 5s. 6d., 59s. 6d. doz.; ointment, 5s. 8d., 54s. 10d. doz. Display-parcel terms are available either when products are purchased by themselves or when ordered in addition to Macleans display parcels. Full particulars on application.

## INSURANCE ACT DISPENSING

**London.**—Compared with October 1939, the number of prescriptions dispensed in the area of the County of London in October 1940 decreased by 184,095, or 28.09 per cent., while the average ingredient cost per prescription increased by 18.65 per cent. to 5.47d. These figures were given at a meeting of the Pharmaceutical Committee held recently. Reports on the checking of prescriptions for the months of July and August, 1940 showed a margin of error of + 0.04 per cent. for each month. Investigations throughout the county have shown that the pharmaceutical service has not been seriously hampered by enemy action and that adequate dispensing facilities are available to meet the reasonable requirements of insured persons in all districts. The war emergency subcommittee of the Pharmaceutical Committee is making investigations into the increased cost to the chemist of maintaining the N.H.I. dispensing service and its relation to the present rate of fees. Some chemists have reported difficulty in obtaining supplies of certain drugs and preparations, including insulin, and the secretary of the Committee has been instructed to take the matter up with the appropriate authorities. The Committee has also resolved to keep under review the position of the chemist in any proposed scheme for a State medical service.

**Middlesex.**—A meeting of the County Pharmaceutical Committee was held on January 15, when Mr. Herbert Skinner was appointed a member of the war emergency committee, with effect from October 23, 1940. During the month of October 1940, the average cost of ingredients per 1000 prescriptions amounted to £25 9s. 4d., an increase of 35.33 per cent. over pre-war figures, while the average dispensing fees per 1000 prescriptions amounted to £18 16s. 5d., this being an increase of 1.05 per cent. over pre-war figures. Emphasis is given to these figures by the fact that the effect of the purchase tax is presumably as yet negligible, while the fees figure takes account of the special allowance recently made in respect of ointment containers. The amount received by chemists in fees showed a reduction of £657 on the previous year.



## PERSONALITIES

DR. B. V. CHRISTENSEN, dean of the college of pharmacy, Ohio State University, is president-elect of the American Pharmaceutical Association.

MR. W. G. SHADFORTH, youngest son of Mr. W. Shadforth, Ph.C., and a director of Shadforth Prescription Service, Ltd., has recently obtained his commission as Pilot Officer in the Royal Air Force.

MR. PERCY NICOLL, a representative of Gale, Baiss & Co., Ltd., manufacturing chemists, London, S.E.15, completed, on January 24, sixty years' continuous service with the firm, forty-four of which have been spent "on the road." On January 25 Mr. Nicoll and his wife were entertained to lunch by the directors of the company, when a suitable presentation was made by them, commemorating this meritorious achievement.

## MARRIAGES

Notices for this column must be authenticated

POLLARD—RENNIE.—At Antrim Road Baptist Church, Belfast, recently, Staff-sergeant Wilfred Stanley Pollard, R.A.M.C., M.P.S., to Elizabeth Edna Rennie, Belfast. Staff-sergeant Pollard was recently in business in Northern Rhodesia.

## DEATHS

BRYCE.—On January 31, Mr. John Bryce, M.P.S., Craiglockhart View, Edinburgh. Mr. Bryce, who qualified in 1903, was for many years works manager with T. & H. Smith, Ltd., manufacturing chemists.

CADBURY.—At 40 Edgbaston Park Road, on January 30, Dame Geraldine Cadbury, aged seventy-five. The daughter of the late Mr. Alfred Southall, she married in 1891 Mr. Barrow Cadbury, who was formerly chairman of Cadbury Brothers, Ltd. The latter part of her life was devoted to the welfare of children and particularly to the court treatment of juveniles. From 1919 to 1924 she was a member of the Birmingham City Council. She was created D.B.E. in 1937.

DIETZSCH.—At the German Hospital, Dalston, London, E.8, recently, Mr. Theodore Dietzsch, M.P.S., aged seventy-two.

ELLIMAN.—At Westcott, Surrey, on January 28, Mr. George Drayton Elliman, chairman of Elliman, Sons & Co., Ltd., aged seventy-seven.

GREEN.—Recently, Mr. Walter Percival Green, M.P.S., Mersey Bank Avenue, Chorlton-cum-Hardy, Manchester. Mr. Green passed the Minor examination of the Pharmaceutical Society in 1915.

GRIER.—At Withington Hospital, Manchester, on January 28, Mr. James Grier, M.Sc., Ph.C., Pennine View, St. Werburgh's Road, Chorlton-cum-Hardy. Mr. Grier served his apprenticeship at Peebles and gained further experience in Edinburgh, Sunderland, Birkenhead and London. After passing the Major examination of the Pharmaceutical Society in 1895, he was appointed demonstrator at Bloomsbury Square. A year later he accepted the post of lecturer in pharmacy at Manchester University, then Owen's College, where he remained until his retirement in 1935. In collaboration with Mr. William Kirkby, M.Sc., Ph.C., he drafted a scheme for the University's B.Sc. degree in pharmacy. His teaching and administrative duties did not leave Mr. Grier much time for research but he published papers on "The Pungent Principles of Ginger," "The Assay of Colchicum," and "The Constituents of Valerian." Mr. Grier received his M.Sc. degree in 1906. The construction and equipment of the Benger and Woolley Laboratories in Manchester University were directly due to Mr. Grier's efforts and influence. He served for many years on the Board of Examiners of the Pharmaceutical Society.



Mr. J. Grier, M.Sc., Ph.C.

In local pharmaceutical affairs he occupied a unique position. For more than thirty years he sat on the council of the Manchester Pharmaceutical Association and he was a member of the executive of the local branch of the Society since its inception. From 1905 to 1912 he acted first as assistant secretary and then as honorary secretary of the Association. He filled the office of president on two occasions, 1914-15 and 1935-36. On his retirement from the University, and in recognition of his long and devoted services to pharmacy, the Association and the Branch presented Mr. and Mrs. Grier with a silver salver suitably inscribed. The funeral service took place at Manchester Crematorium on February 1. Among those present were: Professor J. S. B. Stopford (Vice-Chancellor of the University), Professor H. E. Roper, Professor A. D. Macdonald (Dean of the Medical School), Mr. H. Brindle, Miss I. Roberts (president of the Association), Dr. K. Bullock, Messrs. J. M. Rowson, J. H. Franklin (chairman of the Branch), E. Berry, Boardman, E. Cronin, T. Miller, W. E. Phillipson, W. I. Scholes, H. Steinman (chairman, N.P.U. branch), G. V. Tyler, E. Walters and J. R. Walmsley.

GRIFFIN.—Recently, Mr. John Wilifer Griffin, M.P.S., aged seventy-eight. Mr. Griffin was for many years in business at High Street, Henfield, Sussex, from which he had lately retired.

HELE-SHAW.—On January 30, Mr. R. S. Hele-Shaw, D.Eng., D.Sc., F.R.S., Emeritus Professor of Liverpool University, aged eighty-six. It was while Professor of Engineering at Liverpool University that Dr. Hele-Shaw made experiments on the stream-line flow of liquids. He showed that the flow of a thin film of a viscous liquid, such as glycerin, between parallel glass plates was identical, so far as could be measured, with the calculated stream lines of a perfect fluid, the motion being rendered evident by the introduction first of minute bubbles of air and later of streams of coloured liquid. The effects obtained in this way agreed with those which mathematical analysis had been able to work out. He showed that the liquid could be made to simulate the lines of magnetic and electric force, and that by altering the thickness of the film in places the form of the stream lines could be changed to represent the alterations caused in a magnetic field by the presence of a para-magnetic or diamagnetic body. Professor Hele-Shaw was also a prolific inventor whose ingenuity found expression in the construction of pumps, filtering plant and other devices.

McDANIEL.—At Bungay, Suffolk, recently, Mr. Reginald Alfred McDaniel, Ph.C., Trinity Street. Mr. McDaniel passed the Minor examination of the Pharmaceutical Society in 1912 and the Major in the following year.

MIDGELEY.—Recently, Mr. William Midgeley, 66 Grosvenor Street, All Saints, Manchester. Mr. Midgeley qualified in 1923.

SPROTT.—On January 15, Mr. Francis Holliday Sprott, Chorlton-cum-Hardy, Manchester, aged sixty-two. Mr. Sprott had been with Savory & Moore, Ltd., Chapel Street, London, S.W., Harris & Co., King Street, St. James, S.W.1, and Roberts & Co., New Bond Street, W.1. He also acted as drug buyer for Selfridge, Ltd., Oxford Street, W.1. For several years Mr. Sprott was in Paris and Florence. He was a director of Charles Midgley & Co., Ltd., Manchester, later incorporated with Evans Sons Lescher & Webb, Ltd., Liverpool, for whom he acted as medical propaganda representative for many years in London.

TURTON.—At Llandudno, recently, Mr. Joseph Turton, M.P.S., aged sixty-nine.

WESTLAKE.—On January 15, Mr. George Frederick Westlake, M.P.S., 93 Clarendon Drive, Putney, London, S.W.15, aged seventy-five. Mr. Westlake was until a few years ago chief pharmacist and also superintendent of the electrical department of the Royal Cancer Hospital. He was a member of the hospital staff for forty-three years. From the inception of the Society of Radiographers in 1920 until 1927 Mr. Westlake was honorary secretary and was later elected an honorary member. He was P.M. of the Galen Lodge No. 2394, member of London Grand Rank, a founder of Nosocomia Lodge No. 3395 and its third Master, P.Z. of Harlesden Chapter No. 2098 and a member of Putney Lodge No. 2766.

WITHERS.—At Blackpool, recently, Mr. Herbert Percival Withers, chemist and druggist, aged seventy-nine. Mr. Withers was in business locally but retired some years ago. He is survived by a widow and two sons. Mr. and Mrs. Withers celebrated their golden wedding in 1938.





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## NEW BOOKS

*The Vitamins: A Symposium.* 5½ in. × 8½ in. Pp. 637. American Medical Association, 535 North Dearborn Street, Chicago. [This new symposium has been arranged under the auspices of the Council on Pharmacy and Chemistry and the Council on Foods of the American Medical Association, and represents a thorough study of the subject in all its branches by a considerable number of distinguished contributors. The book presents a wealth of up-to-date and accurate information on a subject which has now become of prime importance in modern medical science. Each vitamin is discussed from several angles—chemistry, physiology, pathology, therapeutics, etc.—and a comprehensive bibliography is included.]

Rossignol, J. N. Le, and Holliday, C. B. *A Pharmacopœia for Chiropodists.* Second edition. 7½ in. × 5 in. Pp. 173. 5s. Faber & Faber, Ltd., 24 Russell Square, London, W.C.1. [Into the second edition of this book, which deals with the drugs used in chiropody, their preparation, action, and uses, surgical dressings, pharmaceuticals of chiropody, etc., the authors have incorporated two new sections. In one the subject of prescription writing, including notes on incompatibilities, is covered in four pages, whereas the other section forms a glossary of the various terms used throughout the book. While the information contained in the book is not intended to enable the chiropodist to make his own pharmaceutical preparations, it does nevertheless stress the importance of chemistry and pharmacy to students and practitioners of chiropody, and makes it clear to them that an elementary knowledge of these subjects is essential as a basis to a successful course of study in their calling.]

*British Journal Photographic Almanac, 1941.* 7¼ in. × 4¾ in. Pp. 416. Cloth, 3s. 6d.; paper, 2s. 6d. Henry Greenwood & Co., Ltd., 24 Wellington Street, Strand, London, W.C.2. [Though the effects of the war are to be seen in its less corpulent format, this almanac, the eighty-second in the series, displays no departure from its usual high standards in the pictorial merit of its photogravure illustrations and the value of its literary contents. The subjects dealt with include "Making Photographic Emulsions," "Colour Temperature," "Document Copying on 35-mm. Film," "The Measuring of Time in the Dark Room," and "Pyro in Modern Developers." There are also reviews of new methods and equipment, formulas for processes (including cine and colour), tables for calculating exposures, focal lengths, etc., and miscellaneous information—including a directory of the British Photographic trade—of particular value to photographic dealers. Whether for their own use or for introduction to photographic customers, the Almanac deserves the interest of all chemists in business.]



# THE CHEMIST AND DRUGGIST

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*Official organ of The Pharmaceutical Society of Ireland, The Pharmaceutical Society of Northern Ireland, The Chemists' and Druggists' Society of Ireland and of other Chemists' Societies in the Empire*

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### No Ban on Drug Imports

ON January 30 the Minister of Health (Mr. M. MacDonald), when asked "what steps had been taken to limit the prescription by medical practitioners of non-essential imported drugs, and the sale of such drugs as ingredients in proprietary medicines, and to suggest alternatives produced in this country," replied "that a Defence Regulation had been made on this subject and its details would be published in the course of the next few days." The scope of the regulation, based on the question and answer, certainly appears comprehensive and might well be interpreted to refer to a substantial list of products; further, it seemed that a "ban on imported drugs" was indicated. Such interpretation has been given to the Minister's statement in some quarters, but from the information we have been able to gather such is not the case. Naturally, Mr. MacDonald's statement created something more than considerable interest in the trade and in manufacturing quarters, and the time lag that has already occurred in the publication of the Defence Regulation has had a deterrent effect on trade.

Up to the time of writing neither the Defence Regulation nor the usual Press notice from the department is available; and we are informed that no precise date of issue can be given and it may be a few days yet before the trade receives official news of what was really intended by the statement in Parliament quoted above. We have, however, succeeded in gathering some information from an authoritative source to the effect that, in the first place, no ban, either on the use, sale or importation of drugs is at present contemplated. Secondly, the Defence Regulation will serve as the authority for the issue of orders from time to time, the general effect of which will be to permit the pharmacist, but not compel him, to substitute for products indicated in Orders, recommended alternatives, which will also be specified.

It will be recalled that the Therapeutic Requirements Committee (set up by the Medical Research Council) did issue a statement on "what drugs imported from abroad can be regarded as non-essential in war-time" (*C. & D.*, October 5, 1940, p. 186). Accompanying that statement was a list of a considerable number of products which were considered by the Committee as non-essential, and in many cases substitutes were indicated. Our information is that the Defence Regulation to which Mr. MacDonald referred is not related to these recommendations. The position as regards imports of drugs

is, we understand, that licences will continue to be issued on the merits of the applications as hitherto.

Possibly, at some later date, the authorities will deal with the subject of "drug economies" in a much more comprehensive and drastic manner, but the matter will need further consideration before action is taken. In the meantime and while awaiting the publication of the Defence Regulation referred to by Mr. MacDonald we have thought fit to make the above observations which, we hope, will clear away the apprehension and the mis-interpretation which has been given to the parliamentary statement quoted in our opening paragraph.

### N.H.I. Payments as a Measuring Rod

WHEN the National Insurance Act was passed in 1911, it was decreed that the supply and dispensing of the medicines provided under the Act should (except in special circumstances) be entrusted to chemists, who were induced to accept the terms originally offered mainly in the hope of establishing the separation of dispensing from prescribing. Unfortunately at no time has the remuneration been on an adequate scale, and here is the crux of a problem of great importance to pharmacy, since Tariff payments are adopted as the standard of payment by other bodies such as the Ministry of Pensions, the public assistance authorities and in several of the voluntary medical-service schemes for uninsured persons. After the 1914-18 war at least two political or semi-political parties prepared plans for a State medical service, and it is quite possible that at the end of this war the Government of the day will feel bound to bring such a scheme into operation. If health insurance should become applicable in the way foreshadowed, it is evident that so few people would be outside it that private dispensing would become insignificant. Not that the latter consideration would affect the majority of chemists to-day, but so great an increase in the amount of Insurance dispensing is a matter that should not be overlooked in its financial and pharmaceutical-political aspects.

In regard to finance it was generally agreed that the dispensing fees were inadequate even in 1939, and in view of the increased cost of carrying on business today the position has become aggravated. The unsatisfactory payment of chemists for Insurance dispensing was recently stressed when the secretary of a branch of the National Pharmaceutical Union showed that the weekly average remuneration for the doctors in his city was £7 10s., while that of the chemists was 15s. It is clear that chemists in England and Wales have a good case for demanding revision of the present dispensing fees, particularly as the basis on which they are fixed dates back to the Peat investigation of 1917. Chemists in Scotland, who had prepared their case for revision when the war broke out, are extremely dissatisfied with their present payments.

We recently drew attention to the setting up of a Medical Planning Commission, which is to give serious consideration to the problem of reconstruction and reorganisation in the field of medicine in the post-war era. Sympathetic consideration will undoubtedly be given by the Government to any scheme evolved by this Commission, provided the benefits to the public are clearly shown. It is essential that, in whatever may be planned, dispensing of medicines through chemists must not be relegated to a secondary place. In fact, there would appear to be a good prospect in the not distant future of carrying the separation of prescribing and dispensing a stage further. But here lies the danger from present inadequate National Health Insurance dispensing payments—a danger that emphasises the need for an increase now. Already chemists cannot afford to be the nation's dispensers on the terms of the current contract, and could not contemplate an extension unless a greater financial return were forthcoming.

It has been made clear in recent times that when the opinions of any section of the trading community are divided the Government either takes no action or produces a scheme of its own. Bearing this in mind, and in view of the fact that, whatever developments take place in pharmaceutical affairs in the future, the National Pharmaceutical Union, the Scottish Pharmaceutical Federation and the General Council of Panel Chemists must play an increasingly important part, it is desirable that these organisations should work in close co-operation at least so far as National Health Insurance dispensing is concerned, for it may ultimately prove that the existence of pharmacy as a profession is largely in their hands.



## Record Expansion in Chemical Exports

WITH the issue of the overseas trade returns for December 1940, it is now possible to examine the progress made on the export front during one of the most eventful years in this country's trade history. It is with considerable satisfaction that we are able to record that during 1940 the British chemical industry achieved the distinction of showing, by a good margin, the largest increase in any export group of United Kingdom manufactures. During the year under review, exports of "chemicals, drugs, dyes and colours" reached the total of £27.7 millions, an increase of £4.8 millions over 1939 and £5.6 millions over 1938. This remarkable increase in exports of British chemicals and allied products is all the more praiseworthy in view of the fact that the industry has had to meet an exceptionally heavy demand from the home trade, and to overcome shipping and other war-time difficulties. Several important markets which in normal times were very large buyers of British chemical products are now closed, but the loss has been more than made good by the expansion of trade in territories formerly largely supplied by Germany and other continental countries. The increase in exports appears to have been spread fairly evenly over all the products comprising the chemicals group, which includes pharmaceutical and fine chemicals, heavy chemicals and dyestuffs. No doubt in the months to come greater efforts will be made by the enemy to interfere with the steady expansion of the British chemical export trade but, despite any vicissitudes that may be in store, the industry will exert every effort to maintain and even increase the lead so well achieved during the first complete year of the war.

A general review of the overseas trade in all classes of merchandise during 1940 shows that exports were approximately maintained at the levels recorded for the two previous years, while imports show substantial increases, largely due to war requirements. The comparative figures are shown in the following table:—

| Year       | Imports       | Exports     | Re-exports |
|------------|---------------|-------------|------------|
|            | £             | £           | £          |
| 1938 .. .. | 919,508,933   | 470,755,320 | 61,524,646 |
| 1939 .. .. | 885,512,502   | 439,535,710 | 46,033,592 |
| 1940 .. .. | 1,099,868,877 | 413,084,205 | 26,188,957 |

The adverse balance of trade for the year was £660 millions, an increase of £260 millions on the 1939 total and £273 millions on 1938.

## Arbitrary Price-Fixing

WHILE championing with unabated zeal the right of pharmacists to adequate remuneration, we feel that a rebuke administered recently by the "South African Pharmaceutical Journal" to one of its readers was justified. This correspondent, expressing amazement that when he had quoted prices from the Dispensing Tariff for retail quantities of drugs he had been told they were procurable elsewhere at half the price, wrote: "Surely pharmacists are not so short-sighted as not to realise that here is an instance where they can be reasonably compensated for their responsibility and learning, by regarding these specialised items as medicine and calculating the price from our Tariff." Surely, in our view, it was the pharmacist himself who was short-sighted not to realise that he was overcharging when he included in the price of a counter transaction an oncost appropriate only to professional operations carried out in the dispensary. The "Journal" remarks:—

"The official dispensing tariff is designed to give a fair recompense for professional work. The cost of materials *plus* a normal profit and the cost in time and overhead of dispensing all take part in the final tariff prices. An ordinary retail transaction is usually priced on cost *plus* a standard profit, which looks after the various overhead costs. For instance, glycerin, liquid extract of cascara, boric acid, bicarbonate of soda, and many other popular articles are used in dispensing, but the retail prices are certainly not based on the dispensing tariff. It would be very difficult to select any drugs which ought to be priced as our contributor wishes, if no special preparation is necessary or undue time required. Oversea practice is usually followed, and the English CHEMIST AND DRUGGIST issues a series of tariffs which include all drugs."

It may interest overseas pharmacists to know that, in Great Britain today, to charge for goods sold over the counter

at the rate appropriate for dispensing would be not simply unjustifiable in principle but contrary to and actionable under war-time legislation. The British chemist may not even charge a reasonable percentage on his cost price, but is compelled to abandon the whole theory of the profit system and add to his cost price the actual (not the percentage) profit he would have made on the lower prices in the "standard" period of 1939, together with any purchase tax that may be due. As the interval increases between today and the pre-war "standard" period, the arbitrary nature of this legislation becomes ever more apparent.

## War-time Cosmetics

WE publish in this issue (p. 84) the first of a series of articles dealing with the small-scale production of cosmetics. Since the Limitation of Supplies Orders came into operation, supplies of packed and branded cosmetics and toilet preparations have been cut to 25 per cent. of former values. Chemists are now feeling the full effects of this restriction, and a considerable number have sought to overcome the difficulties arising from the situation by preparing "own-name" cosmetics in the pharmacy. The publication of cosmetic formulas has been a regular feature in the *C. & D.*, and to assist chemists still further the present series of articles has been specially compiled. They will provide all essential information covering the entire field of cosmetics. Care has been taken to make the articles as concise and practical as possible. Furthermore, only those formulas have been included which contain ingredients still obtainable at the present time. If a temporary shortage of any ingredient should be encountered it will usually be found that the wholesalers are able to offer a suitable alternative material. A stimulus is given to the pharmacist in preparing his own range of cosmetics by the fact that purchase tax on such finished products is not chargeable when made by chemists whose annual turnover of goods chargeable with the tax does not exceed, on the average, £2,000 per annum. In taking up the production of their own cosmetics chemists will find much valuable information regarding sources of supply of raw materials, containers, labels, etc., in the Buyers' Guide pages of the *C. & D. Diary and Year Book*, 1941. The services of the *C. & D. Information Department* are also at the disposal of subscribers on all matters relating to cosmetic preparations and their production.

## Iodine Socks and Seaweed Stockings

ADMITTEDLY Great Britain in war-time is not a promising field for novel commercial enterprises. But we need make no apology for bringing to the notice of our numerous readers in Eire a potential exploitation of natural resources suggested by one of their compatriots. Professor Dillon, of Galway University, has taken cognisance of the thousands of tons of seaweed that go annually to wrack and ruin around the coasts of Eire, and has conducted experiments to demonstrate that the thallus might be turned into artificial silk. The Professor has long been known as an advocate of the virtues of seaweed; his enthusiasm is such, if some accounts are to be believed, as to fall little short of "thallic worship." Hitherto his words seem to have fallen on stony ground—or rather, in language appropriate to the verdant alga—on sterile conceptacles. Yet it has been shown by an English pharmacist—a self-styled "iodine specialist"—that faith in an idea can triumph over a mountain of sales resistance. Who dares to aver that seaweed stockings may not one day become as much a commonplace of modern civilisation as iodine socks are today? There are even possibilities of joint fame. Even assuming the iodine in the socks does not at present originate in seaweed (we have no information as to its source), there is no strong reason why it should not. What a masterpiece of economy it would be to make stockings from the filamental colloid and extract iodine from the residue! Of course, some give-and-take might be necessary to secure balanced use of the raw material, but this should present no difficulty, for obviously the very term stocking is capable of being an elastic one. An even more fruitful suggestion would be to incorporate in the hosiery itself the beneficent properties of the halogen, bringing the element into close contact with iodine-starved calves and knee-caps as well as with weary feet. Irish industry could be given a leg-up by any pioneer who set the enterprise on foot, and the kelp-bound coasts be cleared at the same time, leaving, in Shakespearean language, "not a wrack behind."



## EARLY PHARMACY IN DUBLIN

"Pharmacy in Old Dublin" was the subject of an address by Mr. James J. Kerr (Registrar, Pharmaceutical Society of Ireland) to members of the Old Dublin Society on January 27. Many leading Dublin pharmacists were also present. Mr. Kerr said that in the year 1566 one Thomas Smith was granted a "concordatum" of twenty shillings and one day's pay from every soldier in garrison to encourage him to remain in Dublin and act as an apothecary, supplying "fresshe and newe druggs and other apothecarye wares in plentifull manner to the needefull and good helpe to such of Englishe byrthe in this realm resident." There was no record of the provision of medicines for the native Irish, but no doubt domestic medicine had reached a fairly high standard, judging by numerous Irish manuscripts in the libraries of Trinity College, Dublin, and the Royal Irish Academy. The Academy had many such manuscripts indexed, and these offered a field of research to Irish-speaking students of pharmacy wishing to rediscover remedies, known to their ancestors, and the knowledge of which had been lost.

**The First Physicians.**—Mac Ferbis, the genealogist, recorded of Capa, the first physician in Ireland, that "for the healing of the sick in his time he was all powerful." The second Irish physician, a woman Eaba, accompanied the lady Ceasir into Eirinn about 2000 B.C. The third, Slanga, son of Parthalon, and grandson of Noah, was buried on the summit of the highest mountain in Ulster, which was named Slieve Slainge after him. Later this mountain, which was in co. Down, was renamed Slieve Donard after a Christian hermit of that name. Another early physician mentioned in Irish history was Diancecht, physician to the Tuatha de Danann, who afterwards became the Irish god of medicine. It was he who made a silver hand for King Nuada about the fourth century B.C. Of this physician it was told that he had a son Miach, who was also a healer. The father became jealous of his son's skill and killed him, and from the son's grave there sprang 365 herbs, one for every bone and sinew in his body. The dead son's sister gathered these in her cloak and separated them according to their properties, but Diancecht came and mixed up the herbs so that no one knew their proper cures. To the present day a prescription known as Diancecht's porridge was used in parts of Ireland as a remedy for colds and sore throats; it was made up of hazel buds, dandelions, chicken-weed, and wood sorrel boiled into a porridge with oatmeal, and taken morning and evening. These ancient physicians, went on Mr. Kerr, were well acquainted with the healing properties of what was called today the Turkish bath. Some of these, called sweating houses, were still in existence. Surgery was also not behind-hand in ancient Ireland, for about 637 A.D. a successful trephining operation was carried out on a young chieftain named Cennfaelad at Tomregan, co. Cavan. The skull was cut through and the injured portion of the brain removed, and it is recorded that the patient recovered and became a famous scholar.

**Organised Apothecaries.**—The first apothecaries were something like pharmaceutical chemists, i.e. suppliers of medicines, but they prescribed the medicines they had prepared. The earliest organised medical body in Dublin was the Guild of St. Mary Magdalene, which was founded by Royal Charter of Henry VI of England on October 18, 1446, for the promotion and exercise of the art of chirurgery. Prior to that date, surgery had been carried on by clerics until it was prohibited by various Councils of the Church. The Royal College of Physicians in Ireland was the first body to undertake the regulation of pharmacy. In 1692 the College found that its powers were not strong enough to control the spread of quackery amongst apothecaries and druggists. They therefore surrendered their Charter and obtained a new one from King William III. This also proved not to be strong enough and it was amended by an Act of the Irish Parliament passed in 1761 and known as Lucas's Act, which embodied provisions that were sometimes brought forward as new ideas to-day. Among other items it provided that proprietary remedies might only be sold under the sanction of the College of Physicians, and this was not granted until the composition was known. "If this law," commented Mr. Kerr, "had been enforced here and across the water we would not have had the crop we have of pill and patent-medicine millionaires. It is a curious commentary on human nature to have to say that

while an honest apothecary can only expect to make a livelihood, the vendor of patent pills to cure all ills may become a millionaire." Dr. Charles Lucas, the "father" of the Act, was generally at daggers drawn with the physicians. Originally he was an apothecary, but later he obtained an M.D. abroad. On one occasion the College of Physicians sent a delegation to inspect the drugs in his apothecary shop in Charles Street, Dublin, but Dr. Lucas removed the labels from the bottles before they arrived, and the story is told that the physicians identified a drug as rhubarb root, and were much embarrassed when it was pointed out to them that it was a piece of toast dusted with powdered turmeric.

**Extended Control.**—The first pharmacopœia printed in Dublin was a copy of the London Pharmacopœia in 1746, by P. Wilson and J. Esdell. Wilson's son printed other editions in 1772 and 1774, and W. Gilbert a similar production in 1778. In 1791 the College of Physicians issued specimen copies of the Dublin Pharmacopœia. Three editions of this were published in 1807, 1826, and 1850. The speaker had a copy of the 1826 edition, which was dedicated to George IV. A reprint of this Pharmacopœia, published in 1856, contained a series of poison regulations that were far in advance of anything that had previously been the practice. They contained a provision that bottles of a distinctive shape should be used for poisons. There was a session of all the Dublin Guilds in 1676, and the Guild of St. Luke (the apothecaries) came last in the procession, with colours of orange and purple. The Guild, otherwise the Corporation of Apothecaries, was set up by Charter in 1745, and an Apothecaries Hall was set up in Cecilia Street, Dublin, in a building that was afterwards used as a school of medicine by the Catholic University. In 1790 a petition was presented to the Irish Parliament for powers to raise a fund "for erecting an Apothecaries Hall to be supplied with medicines of the purest quality and prepared under the inspection of persons skilled in the art and mystery of such preparations, the want of which as well as the unskillfulness and ignorance of divers persons who pretend to the art, causes injury to the fair trader, disappointment to the physician, and infinite hazard to the lives of His Majesty's subjects." This petition was granted, the Apothecaries Hall was built in Mary Street, and the business of manufacturing chemists entered upon. The Act provided for examinations to test the competence of apothecaries, and declared "No Apothecary shall grind, compound, sell, or keep any arsenic, oils or colours for painters' use in the shop or room where he compounds medicines." It also provided that all sales of arsenic in quantities of less than a pound weight were to be entered and signed for. This was the forerunner of the Arsenic Act and the Sale of Poisons Act.

**Pharmacy Acts.**—As the nineteenth century advanced the apothecaries became medical men and many of them did not keep open shop. This deficiency in medical halls led ultimately to the introduction of the Pharmacy Act of 1875, and the amending Act of 1890, under which pharmacists practise today. The conditions in 1867 had been well described by Mr. Alec. Paterson, who was still hale and hearty and present with them that night. As a lad Mr. Paterson had served his time in Gordon's, Ranelagh, Dublin. Of the life of apprentices in those days he had said "We had to be in at 8 o'clock in the morning and work sometimes to 9 p.m. As an apprentice I had to run messages, polish up the shop, and later help to make up pills, ointments, plasters, and infusions. The latter had to be made fresh each day. Tablets were unknown, and proprietary medicines few and far between. . . I had to powder such drugs as aloes. After powdering a batch of aloes I was very unpopular for some time, because not only did I taste aloes in everything for about a week, but anyone who came near me got an occasional taste of aloes too." Mr. Paterson had a vivid recollection of a Dublin medical hall being closed down after a tragic error in dispensing. By some oversight cyanide of potassium was put into the ammonium carbonate bottle, with the result that a member of a well-known family was killed instantly. Describing changes in pharmacy during the past forty years, Mr. Kerr said that when he went to the business in 1900 it was still the custom for chemists to make their own ointments, tinctures, powders, extracts, etc. In those days the standard among Irish pharmacists was exceptionally high.



# WAR-TIME COSMETIC FORMULAS

This series of practical articles has been specially written to enable pharmacists to overcome difficulties imposed by restrictions on supplies of cosmetic and toilet preparations. In selecting the various formulas care has been taken to include only those containing ingredients of which supplies are available. Useful information regarding sources of supply of raw materials, containers, labels, etc., for cosmetics can be found in the Buyers' Guide section of the *C. & D. Diary and Year Book*, 1941.

## 1.—Cold Creams

IN their simplest forms, cold creams are water-in-oil emulsions, the emulsifying agent of which is a soap formed from the interaction of borax with the free acid of beeswax. In many cases their reaction is slightly alkaline. In the newer types of cold creams, the borax is replaced by lanolin absorption (cholesterin) bases, emulsifying waxes (such as glyceryl monostearate), etc.

The following general methods of preparing cold creams can be applied to all the formulas given in this article, and no difficulty should be experienced in producing the creams on a small scale in the pharmacy. For cold creams made with borax, the waxes and fatty substances should first be melted together with any oils by heating to approximately 70° C. The borax solution, previously heated to the same temperature, is then added, and the mixture is constantly stirred until emulsification is complete. The duration of mixing varies between ten minutes and one hour, according to the composition of the cream. The perfume is added when the cream is cool. In creams containing absorption bases, the latter are

melted with the waxes and oils and heated to about 80° C. The aqueous solution, heated to the same temperature, is then added with constant stirring. The perfume is added to the cool mixture. For glyceryl monostearate cold creams, all the ingredients are heated together to boiling point with constant stirring until the glyceryl monostearate is melted. Mixing is then continued until the cream is cool enough for the perfume. If it is decided to alter the consistency of any of the formulas given below, this can be attained by modifying the proportion of the waxes one way or the other. To increase the keeping properties of the creams a little preservative may be added. For creams containing 5 to 10 per cent. of fat, 0.1 per cent. of methyl-*p*-hydroxybenzoate is recommended, and for those containing 10 to 20 per cent. of fat or more, 0.2 per cent. of the propyl ester of *p*-hydroxybenzoate is recommended. The perfuming of cold creams depends largely on individual requirements, but otto of rose or compounded rose concentrates are still much in favour. For the modern type of odour, perfume bases specially prepared for the purpose are available in considerable variety from essential oil and perfumery manufacturers and the larger wholesale houses.

### 1. ORIGINAL TYPE

|              |    |    |    |    |         |
|--------------|----|----|----|----|---------|
| White wax    | .. | .. | .. | .. | 4 oz.   |
| Spermaceti   | .. | .. | .. | .. | 5 oz.   |
| Arachis oil  | .. | .. | .. | .. | 32 oz.  |
| Rose water   | .. | .. | .. | .. | 26 oz.  |
| Borax        | .. | .. | .. | .. | 80 gr.  |
| Otto of rose | .. | .. | .. | .. | 15 min. |

### 2. ALL-PURPOSE

|                 |    |    |    |    |      |
|-----------------|----|----|----|----|------|
| Sesame oil      | .. | .. | .. | .. | 42.5 |
| Wool fat        | .. | .. | .. | .. | 4.5  |
| White beeswax   | .. | .. | .. | .. | 15.5 |
| Spermaceti      | .. | .. | .. | .. | 6.0  |
| Borax           | .. | .. | .. | .. | 1.0  |
| Distilled water | .. | .. | .. | .. | 30.0 |
| Perfume         | .. | .. | .. | .. | 0.5  |

### 3. CLEANSING

|                 |    |    |    |    |      |
|-----------------|----|----|----|----|------|
| Spermaceti      | .. | .. | .. | .. | 8    |
| White beeswax   | .. | .. | .. | .. | 12   |
| Liquid paraffin | .. | .. | .. | .. | 55   |
| Distilled water | .. | .. | .. | .. | 23.5 |
| Borax           | .. | .. | .. | .. | 1    |
| Perfume         | .. | .. | .. | .. | 0.5  |

### 4. WITH CETYL ALCOHOL

|                  |    |    |    |    |    |
|------------------|----|----|----|----|----|
| Cetyl alcohol    | .. | .. | .. | .. | 2  |
| Spermaceti       | .. | .. | .. | .. | 8  |
| White wax        | .. | .. | .. | .. | 10 |
| Peach-kernel oil | .. | .. | .. | .. | 55 |
| Borax            | .. | .. | .. | .. | 2  |
| Distilled water  | .. | .. | .. | .. | 23 |

### 5. NON-GREASY

|                       |    |    |    |    |    |
|-----------------------|----|----|----|----|----|
| Glyceryl monostearate | .. | .. | .. | .. | 11 |
| White wax             | .. | .. | .. | .. | 2  |
| Ceresin               | .. | .. | .. | .. | 3  |
| White soft paraffin   | .. | .. | .. | .. | 4  |
| Glycerin              | .. | .. | .. | .. | 6  |
| Water                 | .. | .. | .. | .. | 74 |

### 6. GREASY

|                       |    |    |    |    |    |
|-----------------------|----|----|----|----|----|
| Glyceryl monostearate | .. | .. | .. | .. | 12 |
| Soft paraffin         | .. | .. | .. | .. | 6  |
| Lanolin               | .. | .. | .. | .. | 4  |
| Heavy liquid paraffin | .. | .. | .. | .. | 6  |
| Almond oil            | .. | .. | .. | .. | 6  |
| Glycerin              | .. | .. | .. | .. | 3  |
| Water                 | .. | .. | .. | .. | 63 |

### 7. WITH ABSORPTION-BASE

|              |    |    |    |    |       |
|--------------|----|----|----|----|-------|
| White wax    | .. | .. | .. | .. | 600   |
| Spermaceti   | .. | .. | .. | .. | 100   |
| Stearic acid | .. | .. | .. | .. | 500   |
| Wool fat     | .. | .. | .. | .. | 600   |
| Cacao butter | .. | .. | .. | .. | 400   |
| Almond oil   | .. | .. | .. | .. | 1,800 |
| Cholesterin  | .. | .. | .. | .. | 120   |

Melt together and incorporate a warm solution of

|                     |    |    |    |    |       |
|---------------------|----|----|----|----|-------|
| Sodium benzoate     | .. | .. | .. | .. | 15    |
| Borax               | .. | .. | .. | .. | 100   |
| Hot distilled water | .. | .. | .. | .. | 1,700 |

### 8. QUICK-MELTING

|                     |    |    |    |    |      |
|---------------------|----|----|----|----|------|
| Beeswax             | .. | .. | .. | .. | 4    |
| Paraffin            | .. | .. | .. | .. | 10   |
| White soft paraffin | .. | .. | .. | .. | 10.8 |
| Liquid paraffin     | .. | .. | .. | .. | 55   |
| Water               | .. | .. | .. | .. | 18   |
| Borax               | .. | .. | .. | .. | 1.2  |
| Glycerin            | .. | .. | .. | .. | 1    |

### 9. SKIN FOOD

|                     |    |    |    |    |      |
|---------------------|----|----|----|----|------|
| Wool fat            | .. | .. | .. | .. | 19   |
| Spermaceti          | .. | .. | .. | .. | 3    |
| White beeswax       | .. | .. | .. | .. | 10   |
| Liquid paraffin     | .. | .. | .. | .. | 30   |
| White soft paraffin | .. | .. | .. | .. | 21   |
| Borax               | .. | .. | .. | .. | 0.75 |
| Distilled water     | .. | .. | .. | .. | 15   |
| Perfume oil         | .. | .. | .. | .. | 1.25 |

### 10. WITH LECITHIN

|                                   |    |    |    |    |       |
|-----------------------------------|----|----|----|----|-------|
| Cacao butter                      | .. | .. | .. | .. | 4.5   |
| Beeswax                           | .. | .. | .. | .. | 13.0  |
| Cetyl alcohol                     | .. | .. | .. | .. | 4.0   |
| Heavy liquid paraffin             | .. | .. | .. | .. | 60.0  |
| Lecithin                          | .. | .. | .. | .. | 1.0   |
| Cholesterin                       | .. | .. | .. | .. | 2.0   |
| Water                             | .. | .. | .. | .. | 14.35 |
| Methyl- <i>p</i> -hydroxybenzoate | .. | .. | .. | .. | 0.15  |
| Perfume                           | .. | .. | .. | .. | 1.0   |

The second article in this series, to be published next week, will deal with VANISHING CREAMS.



## TRADE REPORT

Spot quotations recorded for pharmaceutical chemicals, crude drugs, essential oils, etc., represent the prices for wholesale quantities of standard quality. C.i.f. shipment quotations do not include marine war risk insurance and other abnormal charges which arise in the present emergency

### 28 Essex Street, W.C.2, February 5

THE announcement by the Minister of Health in the House of Commons on January 30 that a Defence Regulation had been made and would shortly be published on the subject of limiting the prescription by medical practitioners of non-essential imported drugs and the sale of such drugs as ingredients in proprietary medicines has provoked a good deal of interest in the drug markets. In the absence of any information as to the exact nature of the control to be exercised, holders of stocks have naturally shown a disinclination to sell, and buyers will presumably have to wait until the position becomes clearer by the issue of the regulations concerned (see editorial comment, page 81). Another matter of interest this week concerns the revocation of the open general licence (Notice to Importers No. 112), under which chemicals liable to key industry duty, with certain exceptions, could be imported (see page 73). In the PHARMACEUTICAL CHEMICALS markets, business has continued quiet, with values of most products fully steady. There are no important price changes.

### Crude Drugs

Trade in these products has been fairly good, and all prices are steady, though most orders have been for small quantities. A small business continues in AGAR, but stocks are now very low. It is understood that import licences are being considered only if the material is intended for bacteriological or pharmaceutical purposes. CURAÇAO ALOES continue in good demand, and spot quotations are unaltered. ANTIMONY is steady, but the demand is slow. BALSAM OF TOLU is in poor supply on spot. BUCHU continues firm, with spot stocks limited; there are no offers of new-crop leaves. A fair inquiry continues to be received for CAMPHOR, especially for tablets, which are difficult to locate. CASCARA SAGRADA is steady but unchanged, with fair business passing. COLOCYNTH is firm, but business is small. ERGOT remains steady, with quotations maintained at former rates. A better spot inquiry is noted for GAMBOGE; values are steady. GINGER is firm on spot. MATTO GROSSO IPECACUANHA is steady at current prices. Firm conditions obtain for MENTHOL, with spot material in good demand. MERCURY is unchanged. PEPPERS are idle, and business in PIMENTO has been small, though values are steady. RHUBARB is scarce on spot, but several parcels are offered afloat. The RUBBER market is quiet, and quotations show a fractional rise on the week. SENEGA is firm.

### Essential Oils

Rather quiet markets are reported, but values are being fully maintained. The spot price of ANISE (STAR) continues firm. BAY is steady, but business is not important. BOIS DE ROSE has been in small inquiry, and both spot and forward quotations are unaltered. CASSIA continues firm. Spot demand for CITRONELLA remains slack, but values are unaltered. Firm conditions obtain for GERANIUM. LEMONGRASS is very firm. French GUINEA ORANGE is quoted rather dearer on spot. Chinese PEPPERMINT continues in good demand, but stocks in first hands are limited. The Ministry of Food announces that there will be no change in the existing prices of oils and fats allocated to primary wholesalers and large trade users for the four weeks that commenced on February 2.

### Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Wednesday morning:—

| Centre        | Quoted           | Par     | January 29                        | February 5                        |
|---------------|------------------|---------|-----------------------------------|-----------------------------------|
| Belgian Congo | Francs to £      | nominal | 176½*                             | 176½*                             |
| Buenos Aires  | Paper pesos to £ | —       | 1704½*                            | 1698½*                            |
| Java          | Florins to £     | 12:107  | 7-60*                             | 7-60*                             |
| Lisbon        | Escudos to £     | 110     | 100-0*                            | 100-0*                            |
| Madrid        | Pesetas to £     | 25:24½  | 40-50 official<br>46-55 voluntary | 40-50 official<br>46-55 voluntary |
| Montreal      | Dollars to £     | 4:86½   | 4:45*                             | 4:45*                             |
| New York      | Dollars to £     | nominal | 4:03*                             | 4:03*                             |
| Shanghai      | Per dollar       | —       | 3½d.                              | 3½d.                              |
| Stockholm     | Kronor to £      | 18:150  | 16-90*                            | 16-90*                            |
| Yokohama      | Per yen          | 2s.     | 1s. 2½d.                          | 1s. 2½d.                          |
| Zurich        | Francs to £      | 22:2115 | 17-35*                            | 17-35*                            |

\* Rate fixed by Bank of England. Bank rate, 2 per cent.

### Pharmaceutical Chemicals, etc.

A fair business is being done in these products, and the general tone remains steady.

ACETANILIDE.—Business has been moderate and in smallish quantities. B.P.C. crystals and powder, from 2s. 4d. to 2s. 6d. per lb., according to quantity.

AMIDOPYRINE.—Dealers' prices are about level on the week. Crystals, one-cwt. lots, 27s. 6d. per lb.; smaller lots, up to 30s. per lb.; powder, 3d. per lb. extra.

BARBITONE.—Fair business passing; market firm. One cwt., about 24s. per lb.; smaller quantities, about 27s. 6d. to 30s. per lb.

BENZALDEHYDE.—Quotations remain at about 4s. to 4s. 6d. per lb. for p.f.c., but supplies are very limited.

BENZOIC ACID (B.P.).—Demand is good, but supplies are small. Quotations remain at about 2s. 6d. to 3s. per lb. nominal.

BISMUTH SALTS.—Makers are quoting as follows:—

|                    | Under 4 lb. | 4 lb. and under 8 lb. | 8 lb. and under 28 lb. | 28 lb. and under 1 cwt. | Not less than 1 cwt. |
|--------------------|-------------|-----------------------|------------------------|-------------------------|----------------------|
| Carbonate .. ..    | s. d. 11 3  | s. d. 10 9            | s. d. 10 0             | s. d. 8 7               | s. d. 8 4            |
| Citrate .. ..      | 13 4        | 12 10                 | 12 1                   | 10 4                    | 10 1                 |
| Nitrate, cryst. .. | 7 7         | 7 1                   | 6 4                    | 5 7                     | 5 4                  |
| Oxide .. ..        | 15 4        | 14 10                 | 14 1                   | 12 0                    | 11 9                 |
| Salicylate .. ..   | 11 9        | 11 3                  | 10 6                   | 9 0                     | 8 9                  |
| Subchloride .. ..  | 14 11       | 14 5                  | 13 8                   | 11 8                    | 11 5                 |
| Subgallate .. ..   | 11 11       | 11 5                  | 10 8                   | 9 2                     | 8 11                 |
| Subnitrate .. ..   | 9 11        | 9 5                   | 8 8                    | 7 6                     | 7 3                  |

Rebate of threepence per lb. allowed off 1-cwt. prices on sales of not less than 2 cwt., or against contracts of not less than 2 cwt., provided whole of contract quantity is ordered within three months. Prices net. Payments in fourteen days. For quantities of 28 lb. and upwards, in the home trade, an extra charge of threepence per lb. is made for 1-lb. cartons and 1-lb. parcels, even when repacking into cartons or parcels is effected by purchaser. Smaller quantities than 28 lb. are not subject to this extra charge. Under present conditions all prices and sale terms are without engagement.

BORAX (B.P.).—Steady at makers' prices: Granulated, £34; crystals, £35; powder, £35 10s. per ton, in 1-cwt. bags, carriage paid in Great Britain for minimum one-ton lots. Commercial qualities, £8 per ton less.

BORIC ACID (B.P.).—Makers' prices steady: Granulated, £50 10s.; crystals, £51 10s. per ton for minimum one-ton lots, in 1-cwt. bags, carriage paid in Great Britain. Commercial qualities, £8 per ton less.

BROMIDES.—Makers' prices remain at the recent advance:—

| Potassium                  | In parcels of |            |       |       |        |        |
|----------------------------|---------------|------------|-------|-------|--------|--------|
|                            | 1 lb.         | 2 lb.      | 4 lb. | 7 lb. | 14 lb. | 28 lb. |
| 1 lb. and under 4 lb. ..   | s. d. 3 11    | s. d. 3 9½ | —     | —     | —      | —      |
| 4 lb. and under 7 lb. ..   | 3 10          | 3 8½       | 3 8½  | —     | —      | —      |
| 7 lb. and under 14 lb. ..  | 3 9           | 3 7½       | 3 7½  | 3 6½  | —      | —      |
| 14 lb. and under 28 lb. .. | 3 8           | 3 6½       | 3 6½  | 3 5½  | 3 5½   | —      |
| 28 lb. and under 1 cwt. .. | 3 7           | 3 5½       | 3 5½  | 3 4½  | 3 4½   | 3 4    |
| 1 cwt. .. ..               | 3 0½          | 2 11       | 2 10½ | 2 10½ | 2 10   | 2 9½   |
| 5 cwt. .. ..               | 2 11½         | 2 10       | 2 9½  | 2 9½  | 2 9    | 2 8½   |

SODIUM, 1d. per lb. extra; AMMONIUM, 3d. per lb. extra; packing extra but returnable. Net. Carriage paid in United Kingdom. Contracts over six months: each delivery against contract to be charged at schedule rates current on day of dispatch of goods. War-emergency clause and usual re-sale terms apply.

CAFFEINE.—Market again firmer; supplies short. Importers are now quoting from 52s. 6d. to 57s. 6d. per lb. for ALKALOID, according to quantity. CITRATE.—About 27s. 6d. to 32s. 6d. would be the value, but supplies are also short.

CALCIUM LACTATE.—Small inquiry; market steady. Makers' price stands at about 1s. 8d. per lb. for small lots.

CITRATES.—Makers are quoting as follows:—

| POTASSIUM, B.P.            | In containers of |             |       |       |        |        |
|----------------------------|------------------|-------------|-------|-------|--------|--------|
|                            | 1 lb.            | 2 lb.       | 4 lb. | 7 lb. | 14 lb. | 28 lb. |
| Under 4 lb. .. ..          | s. d. 3 0        | s. d. 2 10½ | —     | —     | —      | —      |
| 4 lb. and under 7 lb. ..   | 2 11             | 2 9½        | 2 9½  | —     | —      | —      |
| 7 lb. and under 14 lb. ..  | 2 10             | 2 8½        | 2 8½  | 2 7½  | —      | —      |
| 14 lb. and under 28 lb. .. | 2 9              | 2 7½        | 2 7½  | 2 6½  | 2 6½   | —      |
| 28 lb. and under 1 cwt. .. | 2 8              | 2 6½        | 2 6½  | 2 5½  | 2 5½   | 2 5    |

SODIUM, B.P., one penny lb. below, and IRON AND AMMONIUM (SCALES), B.P. threepence per lb. above corresponding prices for POTASSIUM, B.P. Prices net. All packages charged extra. It is a condition of sale that buyers undertake not to re-sell at prices below the values given. 28-lb. tins charged 2s. each.

CITRIC ACID (B.P. CRYSTALS).—Makers' quoted price for home trade continues nominal at 1s. 2d. per lb., less 5 per cent. discount.

COCAINE.—British makers' prices for wholesale bulk quantities are as follows: HYDROCHLORIDE and NITRATE, 25 oz. and over, 29s. 9d.; 16 oz. and less than 25 oz., 30s. 9d.; over 8 oz. and less than 16 oz., 31s. 9d. per oz. ALKALOID, CITRATE, and SALICYLATE, 25 oz. and over, 32s. 6d.; 16 oz. and less than 25 oz., 33s. 6d.; over 8 oz. and less than 16 oz., 34s. 6d. per oz., 16-oz. packages free, smaller packing extra. The scale of prices applicable to distributors of smaller quantities is as follows: HYDROCHLORIDE and NITRATE,



8 oz., 34s. 1d.; 4 oz. and less than 7 oz., 34s. 7d.; 2 oz. and less than 4 oz., 35s. 5d.; 1 oz. and less than 2 oz., 36s. 5d.;  $\frac{1}{2}$  oz. and less than 1 oz., 37s. 11d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 40s. 11d. per oz. ALKALOID, CITRATE and SALICYLATE, 8 oz., 36s. 10d.; 4 oz. and less than 8 oz., 37s. 4d.; 2 oz. and less than 4 oz., 38s. 2d.; 1 oz. and less than 2 oz., 39s. 2d.;  $\frac{1}{2}$  oz. and less than 1 oz., 40s. 8d.;  $\frac{1}{4}$  oz. and less than  $\frac{1}{2}$  oz., 43s. 8d. per oz., packages extra. Re-sale: Sales are subject to buyers' undertaking not to re-sell any quantity below scale current at time of re-sale. Export prices vary according to destination.

**CREAM OF TARTAR (B.P.).**—One maker quotes a nominal price of 202s. per cwt., less  $2\frac{1}{2}$  per cent. discount, but supplies are restricted to regular consumer customers. Small deliveries are being made by another maker on the basis of 255s. per cwt.

**EPHEDRINE HYDROCHLORIDE (B.P.).**—Quotations for ordinary quantities are unaltered at about 7s. to 8s. per oz., with lots of 1,000 oz. at a slightly lower figure.

**GLYCERIN**—As noted last week, the price has been advanced by 5s. per cwt., making the basic rates for chemically pure, B.P., 67s. 6d. per cwt., and for single-distilled pale straw, 62s. 6d. per cwt., less  $2\frac{1}{2}$  per cent., delivered in 10-cwt. drums. The usual differences apply for smaller packages, etc. The increase is stated to be due to extra costs incurred in manufacture, distribution, etc., since the outbreak of war.

**GUAIACOL.**—Supplies are limited, and the price remains firm. Crystals and liquid are quoted by dealers at about 12s. 6d. per lb.

**GUAIACOL CARBONATE**—Steady. Makers' and dealers' prices remain at about 12s. 6d. to 13s. 6d. per lb.

**HEXAMINE.**—Fair demand for limited quantities. Free-running crystals quoted by dealers at about 2s. 1d. to 2s. 3d. per lb., ex store, according to quantity; powder would be at cheaper rates.

**LACTIC ACID.**—Some occasional business, with the market steady. One-cwt. carboys, about 1s. 8 $\frac{1}{2}$ d. per lb.; winchesters and bottles, about 1s. 9d. to 2s. per lb., ex store, according to quantity.

**METHYL SALICYLATE.**—Makers' prices were recently advanced, as follows: Five cwt., 1s. 8 $\frac{1}{2}$ d.; one cwt., 1s. 9d.; small quantities, in bottles, 1s. 11d. per lb.

**METHYL SULPHONAL.**—Steady; business limited. Dealers' prices range between 39s. and 41s. per lb., ex store.

**PARALDEHYDE.**—Steady; fair demand. Quantities, in one-cwt. carboys, about 11d. to 1s. per lb.

**PHENACETIN.**—Makers' spot prices for ordinary quantities are unaltered at about 3s. 9d. to 4s. per lb., without engagement. Dealers' prices are firm at about 8s. 6d. per lb.

**POTASSIUM PERMANGANATE.**—Makers' scales of prices are as follows:—

| Minimum delivery of | B.P. Quality            |                   | Technical       |                 |
|---------------------|-------------------------|-------------------|-----------------|-----------------|
|                     | In 1-cwt. drums         | In 5-cwt. drums   | In 1-cwt. drums | In 5-cwt. drums |
|                     | Per lb.                 | Per lb.           | Per cwt.        | Per cwt.        |
| 1 cwt. up .. .. .   | s. d. 1 5 $\frac{1}{2}$ | s. d. —           | s. d. 161 6     | s. d. —         |
| 3 cwt. up .. .. .   | 1 5                     | —                 | 157 0           | —               |
| 5 cwt. up .. .. .   | 1 4 $\frac{1}{2}$       | 1 4 $\frac{1}{2}$ | 154 6           | 152 0           |
| 1 ton up .. .. .    | 1 4 $\frac{1}{2}$       | 1 4 $\frac{1}{2}$ | 152 0           | 149 6           |
| 4 tons up .. .. .   | 1 4 $\frac{1}{2}$       | 1 4               | 149 6           | 147 3           |

Terms: Net, delivered nearest railway station in Great Britain; drums extra and returnable.

**QUININE.**—Quotation for sulphate continues at 59.85 American dollars per 100 oz., f.o.b. Java. The sterling price, at current rate of exchange, would be £14 17s. 5d. per 100 oz., f.o.b. Java.

**RESORCIN.**—Makers' prices are unaltered: Not less than 7 lb., 7s. 3d. per lb.; not less than 14 lb., 7s.; not less than 56 lb., 6s. 10d.; not less than 1 cwt., 6s. 9d. Dealers' prices for any spot material available would be about 8s. 6d. to 9s. per lb.

**SACCHARIN.**—Convention price for 550 remains at 98s. 4d. per lb., duty paid. Neither wholesale nor retail prices are under Government control.

**SALICYLIC ACID (B.P.).**—Makers' prices are steady, as follows:—

| In containers of           | 1 lb.                   | 2 lb.             | 4 lb.             | 7 lb.             | 14 lb.              | 28 lb.            |
|----------------------------|-------------------------|-------------------|-------------------|-------------------|---------------------|-------------------|
| Under 4 lb. .. .. .        | s. d. 2 7 $\frac{1}{2}$ | s. d. 2 6         | s. d. —           | s. d. —           | s. d. —             | s. d. —           |
| 4 lb. and under 7 lb. ..   | 2 6 $\frac{1}{2}$       | 2 5               | 2 4 $\frac{1}{2}$ | —                 | —                   | —                 |
| 7 lb. and under 14 lb. ..  | 2 5 $\frac{1}{2}$       | 2 4               | 2 3 $\frac{1}{2}$ | 2 2 $\frac{1}{2}$ | 2 2                 | —                 |
| 14 lb. and under 28 lb. .. | 2 4 $\frac{1}{2}$       | 2 3               | 2 2 $\frac{1}{2}$ | 2 2 $\frac{1}{2}$ | 2 2                 | —                 |
| 28 lb. and under 1 cwt. .. | 2 3 $\frac{1}{2}$       | 2 2               | 2 1 $\frac{1}{2}$ | 2 1 $\frac{1}{2}$ | 2 1                 | 2 0 $\frac{1}{2}$ |
| 1 cwt. and under 5 cwt. .. | 1 11 $\frac{1}{2}$      | 1 10              | 1 9 $\frac{1}{2}$ | 1 9 $\frac{1}{2}$ | 1 9*                | 1 8 $\frac{1}{2}$ |
| 5 cwt. and under 1 ton ..  | 1 11                    | 1 9 $\frac{1}{2}$ | 1 9 $\frac{1}{2}$ | 1 8 $\frac{1}{2}$ | 1 8 $\frac{1}{2}$ * | 1 8               |
| 1 ton .. .. .              | 1 10                    | 1 8 $\frac{1}{2}$ | 1 8 $\frac{1}{2}$ | 1 7 $\frac{1}{2}$ | 1 7 $\frac{1}{2}$ * | 1 7               |

\* 8 x 14 lb. and upwards, in one delivery,  $\frac{1}{2}$  d. lb. less.

Prices include parcels or collapsible cartons; other packages charged extra. Can be assorted with sodium salicylate. Prices are quoted subject to buyer's undertaking not to re-sell any quantities at prices or terms below scale current at time of re-sale.

**SALOL.**—Price firm at about 6s. 9d. to 7s. 6d. per lb., according to quantity.

**SANTONIN.**—Convention prices are as follows: 15 kilos and over, £35 10s.; not less than 10 kilos, £36 5s.; not less than 5 kilos, £37; less than 5 kilos, £38 per kilo, delivered free in the U.K.; 1-kilo tins free.

**SULPHANILAMIDE.**—A fair business is being done, with the market quoted unchanged. Spot, about 10s. 6d. to 11s. per lb., according to quantity.

**SULPHONAL.**—Dealers' prices are firm. Spot, about 34s. to 37s. 6d. per lb., according to quantity.

**TARTARIC ACID (B.P. CRYSTALS).**—Makers are quoting a nominal price of 2s. 6 $\frac{1}{2}$ d. per lb., less 5 per cent. discount. Supplies are reserved for regular consumer customers. Any foreign material would be worth about 4s. per lb.

**THEOBROMINE.**—Supplies are small. Prices of imported material appear to vary between 55s. and 60s. per lb.

**THEOBROMINE SODIUM SALICYLATE.**—About 35s. to 37s. 6d. per lb. is mentioned for British-made from imported theobromine.

**VANILLIN.**—British makers' prices are unchanged: Ex clove oil or guaiacol, five cwt., 15s. 6d. per lb.; one cwt., 15s. 7 $\frac{1}{2}$ d.; 56 lb., 15s. 9d.; less than 56 lb., 16s., carriage paid in the U.K. Tins in cases are now returnable to makers.

## Crude Drugs, etc.

A fair range of products has met with good demand this week, and business shows some improvement. All prices are steady.

**AGAR.**—Small business is passing; stocks are limited. Spot, Kobe No. 1, 18s. per lb.; Kobe No. 2, 17s.; and Yokohama No. 1, 17s. per lb. It is understood that import licences are being considered only if material is intended for bacteriological and pharmaceutical purposes.

**ALOES.**—Demand for Curaçao continues good. Spot is quoted at about 330s. to 350s. per cwt., ex store, according to quantity. The last price reported from New York was 300s. per cwt., c.i.f. Cape, steady and unchanged at between 57s. 6d. to 60s. per cwt.

**ANTIMONY.**—Demand has been only moderate, but values are steady. English, 99 per cent., £85 per ton, delivered; foreign regulus, £88 to £91 per ton, ex warehouse, duty paid; Chinese, for prompt shipment, £76 to £80 per ton, c.i.f.

**BALSAMS.**—Business is on the quiet side, with prices steady. *Tolu*, in poor supply on spot, 8s. per lb.; softish, 7s. 6d. per lb.; *Canada*, 7s. 6d. per lb.; *Copaiba*, B.P., 3s. 6d. per lb.; *Peru*, 7s. 9d. per lb.

**BELLADONNA.**—The value of English-grown leaf would be about 4s. 6d. per lb. No quotations are available for imported material.

**BENZON.**—Business continues fair, with prices unchanged. Spot, Sumatra, from £5 10s. to £6 15s. per cwt., ex store.

**BUCHU.**—Continues firm, with spot stocks limited. Value would be about 3s. 5d. per lb.; there are no offers of new-crop leaves.

**CAMPOR.**—Inquiry has been fair. Japanese, tablets, scarce; slabs, about 5s. 2d. per lb. and flowers, about 5s. 4d. per lb. Continental synthetic is quoted unchanged: Powder, 5s. 3d.; tablets, 5s. 6d. per lb., ex store. English refined, steady as follows: Flowers, one cwt., 6s. 3d.; 28 lb., 6s. 4d.; less than 28 lb., 6s. 5d. per lb. Transparent tablets,  $\frac{1}{4}$ -oz.: one cwt., 6s. 9d.; 28 lb. 6s. 10d.; less than 28 lb., 6s. 11d. per lb.

**CANTHARIDES.**—Occasional small trade is passing. Chinese, on spot, would be worth about 6s. per lb., duty paid; Russian, if available, about 6s. 6d. per lb. on spot.

**CARDAMOMS.**—In quiet demand, at unchanged figures. Ceylon, spot, 3s. 6d. to 5s. per lb., according to quantity. Bombay seed, about 4s. 6d. per lb. Mangalore seed, about 4s. 3d. per lb. Aleppy greens, about 3s. 2d. per lb.

**CASCARA SAGRADA.**—Steady and unchanged, with a fair business passing. Spot, 125s. upwards, according to holder and age of bark; shipment, about 100s. per cwt., c.i.f.

**CASCARILLA.**—Remains in quiet demand. Dealers are quoting silvery quill at about 1s. 6d. per lb.; siftings, about 1s. 4d. per lb.

**CLOVES.**—Market is steady, business fair. Zanzibar, spot, 11 $\frac{1}{2}$ d. per lb. To arrive, sellers quote February shipment at 9 $\frac{1}{2}$ d. per lb., c.i.f., nominal. Madagascar, spot, 11d., sellers, in bond.

**COCOA BUTTER.**—Prime English, no offers; foreign, nominal.

**COCONUT (DESICCATED).**—Fine and medium nominal on spot.

**COCHINEAL.**—Business fair; spot values maintained. Spot, blacks, about 2s. 7d.; greys, about 2s. 6d. per lb.

**COLCHICUM.**—No quotations are available.

**COLOCYNTH.**—Market firm, with little doing. Spot, fine-quality pulp, approximately 2s. per lb.; ordinary grades, about 1s. 7d. to 1s. 8d. per lb.

**DAMIANA LEAVES.**—In fair supply, and quoted by dealers at about 1s. per lb.

**DANDELION ROOT.**—Imported root is unquoted. English-dug is valued at about 2s. per lb.

**DERRIS ROOT.**—Dealers are quoting small supplies at about 1s. 1d. to 1s. 2d. per lb., according to test.



**DIGITALIS LEAVES.**—No quotations are available for imported leaves; English-grown would be worth about 4s. per lb.

**ERGOT.**—Prices are now steady, with not much interest being shown. Spanish-Portuguese, spot, about 8s. 9d. per lb., ex store; some slightly wormy is reported available at about 8s. per lb.; shipment, about 6s. 3d. to 6s. 6d. per lb., c.i.f.

**GAMBOGE.**—Better spot inquiry; steady at about £26 per cwt.

**GENTIAN.**—No open-market quotations are available.

**GINGER.**—Spot market firm; quotations unchanged. West African, spot, 80s. per cwt. Jamaican, spot, small-medium, 90s. per cwt.; bold, in barrels, 120s. per cwt. Cochinchina, unwashed, spot, 77s. 6d. per cwt., sellers.

**GUM ACACIA.**—Remains quiet and is quoted easier. Kordofan cleaned sorts, spot, about 87s. 6d. per cwt., ex store London; shipment, 47s. 6d. per cwt., c.i.f.

**IPECACUANHA.**—Business quiet, prices steady. Matto Grosso, spot, about 19s. to 20s. per lb., nominal, ex store; shipment, about 15s. per lb., c.i.f. Minas, in good inquiry, spot, about 11s. per lb.; forward values are now at about 9s. 3d. per lb., c.i.f. EXT. IPECAC. LIQ., steady at the recent reduction to 26s. 6d. per lb., for minimum lots of twelve winchesters.

**MENTHOL.**—Very firm, with good demand for spot material. Chinese is now quoted on spot at 21s. to 22s. per lb.; forward values vary between 18s. and 19s. per lb., c.i.f., according to shipper. A few cases of Japanese are stated to be available on spot at about 22s. 6d. per lb., ex store, duty paid.

**MERCURY.**—No change in the London spot quotation of £48 per bottle of 34.5 kilos, ex warehouse, without engagement and subject to confirmation.

**NUTMEGS.**—Quotations nominal. West Indian, spot, 80's, 1s. 2d. per lb.; 90's, 10½d.; wormy and broken, rod.

**ORANGE PEEL.**—Thin-cut, on spot, would be worth approximately 3s. 4d. per lb., ex store. Bitter quarters are in short supply and would be valued at about 1s. 8d. per lb., ex store.

**PEPPERS.**—Market idle; values unchanged. Lampong, spot, 5½d. per lb., in bond, sellers; Tellicherry, spot, 6½d. Aleppy, spot, 6d. White Muntok, spot, in bond, 8½d.; shipment, unquoted.

**PIMENTO.**—Business is of small account. Spot, 1s. 5½d. per lb.; shipment, new-crop, February, 125s. per cwt., c.i.f., sellers.

**QUASSIA CHIPS.**—Dealers are quoting small supplies at about 30s. per cwt., ex store.

**QUILLARIA BARK.**—Dealers are offering spot supplies at approximately 85s. per cwt., ex store.

**RHUBARB.**—Good inquiry has been experienced for rough-round, but stocks are now low; spot value would be about 6s. 3d. per lb. Several parcels afloat are offered at 5s. 6d. per lb., landed and duty paid. Shipment, unchanged at about 4s. 5d. to 4s. 8d. per lb., c.i.f. Small supplies of Shensi quoted at 7s. 9d. to 8s. 9d., spot.

**RUBBER.**—Market quiet; quotations show a fractional increase. Standard ribbed smoked sheet, spot, 12½d.; February, 12½d.; March, 12½d.; April-June, 12½d.; July-September, 12½d.

**SEEDS.**—ANISE.—Spot, Bulgarian, 125s., duty paid. CANARY.—Spot, Morocco, in single-bag lots, 100s., duty paid. CARAWAY.—Spot, Dutch, 240s., duty paid. CORIANDER.—Spot, Morocco, firm at 120s., duty paid, ex store London or Liverpool. CUMIN.—Spot, Malta, 145s., duty free; Morocco, 140s., duty paid. DILL.—Spot, Indian, 75s., ex store Liverpool, duty free. FENNEL.—Spot, Indian, 57s. 6d., duty free; Iran, 55s., duty paid. FENUGREEK.—Spot, Morocco, 40s., duty paid, ex store Liverpool. MUSTARD.—Spot, English, only very small quantities available, valued at 75s. to 80s., according to quality.

**SENEGA.**—Firm on spot at about 5s. 3d. to 5s. 4½d. per lb. Shipment would be in the region of 4s. 8d. to 4s. 9d. per lb., c.i.f.

**SENNA.**—Unchanged. Tinnevely, market steady, spot supplies small. No. 1 leaves, rod. per lb.; No. 2 leaves, 6½d.; No. 3 leaves, 5d. per lb. Hand-picked Tinnevely pods, if available, 1s. to 1s. 3d. per lb.; manufacturing pods, 6d. to 7d. per lb. Alexandrian hand-picked pods, a few small lots at 5s. 6d. to 7s. 6d. per lb.

**SHELLAC.**—Steady, with values unaltered. Standard TN orange, 87s. 6d. per cwt.; to arrive, 70s. per cwt., c.i.f. Pure button, spot, 115s., and fine orange, 110s. to 170s. per cwt.

**TAMARINDS.**—Spot values are unchanged: Barbados, 50s. Antigua, 48s. per cwt., ex store London. Supplies are limited.

**TONKA BEANS.**—Dealers are quoting supplies of fair-frosted Para at about 2s. 9d. per lb. on spot.

**TRAGACANTH.**—Continued scarcity of the finer grades of gum has resulted in higher prices for the medium qualities. Prices are as follows: No. 1, white, £110.; No. 2, white, £90.; No. 3, white, £80.; pale leaf, £50.; amber leaf, £35.; red leaf, from £15.; woody and hoggy, from £8 per cwt., ex store.

**TURMERIC.**—Spot, Madras and Rajapore finger, quoted at 47s. 6d.; a small amount of business has been passing at this figure.

**WAXES.**—BEES'.—Modest spot business, market steady. Spot, 200s.; in bond, 190s.; shipment, Dar-es-Salaam, 182s. 6d. per cwt., c.i.f. Japanese, first three brands, spot, duty paid, 137s.; in bond, 127s.; shipment, 115s., c.i.f. CARNAUBA.—Fatty grey, dearer at 450s.; chalky grey, 435s.; Primeira, 520s.

## Essential and Expressed Oils, etc.

The spot markets are steady, with modest business being done.

**ALMOND.**—English expressed, quoted as follows: Spot, one-cwt. lots, 4s. 9d.; smaller quantities, up to 5s. 6d. per lb., ex store. Foreign bitter, if available, would be worth about 20s. per lb. on spot; English, about 35s. or more per lb.

**ANISE (STAR).**—Continues firm. Spot, tins in cases, about 7s.; drums, about 6s. 9d. per lb., ex store; shipment, tins in cases, 5s.; drums, 4s. 6d. per lb., c.i.f.

**AVOCADO PEAR.**—Importers continue to quote at about 55s. to 57s. per gall., delivered; small lots would be at higher prices.

**BAY.**—Steady, with business small. Spot, about 6s. and 6s. 6d. per lb., ex store.

**BERGAMOT.**—Unchanged. Spot prices are a matter for negotiation; about 70s. per lb. would now be considered as a basis. British makers are offering artificial substitutes at attractive prices.

**BOIS DE ROSE.**—Only limited inquiry on spot, at up to about 14s. per lb.; shipment, about 9s. 3d. per lb., c.i.f., in drums.

**CAJUPUT.**—Firm, with values unchanged. Spot, about 5s. 6d. to 6s. per lb., according to quantity.

**CANANGA.**—Dealers' spot price would be about 19s. per lb.

**CASSIA.**—Firm, with spot quoted at about 9s. upwards per lb.; shipment, if obtainable, approximately 7s. per lb., c.i.f.

**CINNAMON BARK.**—English oil would be worth about 20s. per lb.

**CINNAMON LEAF.**—Small business is passing. Spot, about 4s. 6d. to 5s. per lb.

**CITRONELLA.**—Demand on spot remains slack, with values unchanged. Ceylon, spot, quoted at about 2s. 6d. per lb., in drums; small lots, up to 3s. per lb.; shipment, firm at about 2s. per lb., c.i.f. Java, spot, about 2s. 6d. to 3s. per lb.; shipment, about 1s. 9d. per lb., c.i.f.

**CLOVE.**—There has been little business except for modest spot orders. Imported, spot, in drums, about 6s. 6d. to 6s. 9d. upwards per lb., if available. English, quoted unchanged at about 7s. 5d. to 7s. 11d. per lb., according to quantity.

**EUCALYPTUS.**—Values steady, business quiet. Spot, from 4s. to 4s. 6d. per lb. for 70 to 75 per cent. oil, according to holder, and from 4s. 6d. to 4s. 9d. for 80 to 85 per cent.; shipment, nominal.

**GERANIUM.**—Firm; spot, quoted rather earlier at 55s. to 60s. per lb. for both Bourbon and Algerian.

**GRAPEFRUIT.**—Spot quotations for genuine Californian continue at between 14s. 6d. and 15s. per lb. Genuine Florida would be worth about 11s. 6d. per lb.

**LAVENDER.**—Spot value of any good-quality 38-40 per cent. would be about 55s. to 60s. per lb.

**LEMON.**—Quotations for Californian distilled are unaltered at about 10s. per lb., nominal; cold-pressed might be obtained on the basis of 3 dollars 25 cents per lb., cost and freight. The position of Sicilian hand-pressed is unaltered; no quotations are available, and spot prices would be a matter for negotiation. British makers offer artificial substitutes at attractive prices.

**LEMONGRASS.**—The spot price remains firm at about 5s. to 5s. 6d. per lb.; shipment, about 4s. 3d. per lb., c.i.f.

**NEROLI.**—Quiet and steady. Pure natural oil would be worth about 80s. per oz. Artificial substitutes are available from British makers at attractive prices.

**NUTMEG.**—In small supply. Spot value would be in the region of 18s. to 20s. per lb.

**OLIVE.**—The Ministry of Food controlled price to importers for large bulk quantities in 50-gall. drums is unchanged. Distributors' prices for a few gallons, in gallon tins, carriage paid, range from 12s. 6d. to 13s. 6d. per gall., as to quantity.

**ORANGE.**—Spot value of French Guinea is now about 12s. 6d. per lb. Rhodesian is valued at about 10s. per lb. Californian is quoted in sterling at 5s. per lb., in small drums, ex store, duty paid, limited supplies only being available. Shipment can be effected by transit overland to New York at five cents per lb. extra.

**PALMAROSA.**—Quotations for spot continue nominal at about 15s. 6d. per lb., ex store; shipment, new-crop, about 12s. 6d. per lb., c.i.f.

**PEPPERMINT.**—The Chinese oil continues in good demand, but spot stocks are limited; quotations remain at about 11s. to 11s. 6d. per lb. Shipment, about 7s. to 7s. 3d. per lb., c.i.f.; afloat, 8s. 9d. to 9s. per lb., sellers' licence. American natural oil is firm on spot at between 18s. and 20s. per lb., ex store; shipment, drums, about 15s. 3d., and tins in cases, about 15s. 6d. per lb., c.i.f.

**PINE.**—Siberian, spot, 9s. to 10s. per lb.; Pumlilio, about 20s.

**ROSE.**—Limited business. Bulgarian, spot, about 110s. per oz.

**ROSEMARY.**—Dealers quote prices of about 6s. 6d. to 7s. per lb.

**SASSAFRAS.**—Not much business is moving. Spot, about 10s. to 12s. per lb.

**SPIKE.**—Quiet and unchanged. Spot, 12s. 6d. to 13s. per lb.

**THYME.**—Spot values vary between 10s. and 12s. per lb.

**VETIVERT.**—Not much business is moving, but the prices are steady. Spot, Bourbon, about 50s. per lb.; Java, about 40s. per lb., ex store.



## CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

### An Early Blood-transfusion

SIR,—Professor Dryer, in his lecture on blood-transfusion (*C. & D.*, February 1, p. 61), showed himself so well acquainted with the history of his subject that he must certainly be familiar with a reference to it in the diary of Samuel Pepys. As the date of the entry is November 14, 1666, the experiment referred to must have been among the earliest made, and the quotation may interest others of your readers. It runs:—

"At the meeting at Gresham College tonight, which it seems they now have every Wednesday again, there was a pretty experiment of the blood of one dogg let out, till he died, into the body of another on one side, while all his own run out on the other side. The first died upon the place, and the other did very well and likely to do well. This did give occasion to many pretty wishes, as of the blood of a Quaker to be let into an archbishop, and such like; but may if it takes be of mighty use to man's health, for the mending of bad blood by borrowing from a better body."

The last phrase seems to sum up the whole theory of blood-transfusion.

Yours faithfully,

DIARIST (3/2).

### Quotas

SIR,—In your article on "Quota Ethics" (*C. & D.*, February 1, p. 67) you remark that a manufacturer may have his warehouses packed to capacity with toilet specialities, of which he cannot sell in the home market more than a quarter his normal output, in value, and which may, for various reasons, be unsuitable for export. A powerful argument against such quota restriction is that goods stored in bulk may be destroyed *in toto* by enemy action, whereas if they had been distributed to the retailers in normal quantities it is unlikely that more than a few would have suffered damage. If some of the large distributors have decided to cease handling general proprietary goods, then the chemist, who has been accustomed to order these lines in small quantities from these houses, will be unable to obtain them in future. Chemists who have been accustomed to order direct should be able to obtain supplies, but even then there is going to be some difficulty, for a manufacturer who formerly offered a minimum parcel of £2 is unlikely to take kindly to the idea of dispatching goods to the value of 10s. As there is no provision to regulate the manner in which the quota is to be allotted, the chemist who has bought the minimum parcel may be ignored in favour of firms which have traded in large quantities. I agree with you that the fact that chemists may make their own preparations need not cause the manufacturers any anxiety. For one thing, some of the nationally advertised products are not suitable for making and packing on the dispensing counter, and require a factory plant to turn out at an economical price. For another, there is always the power of national advertising to be considered, and when a chemist does turn out a satisfactory equivalent, its sale can still only be local. Some chemists, even before the war, built up quite a substantial sale for their "own name" lines, but the combined effect of all of them can hardly be said to have diminished the sale of advertised proprietaries. In my opinion there is a public for both, and the chemist who markets his own preparations should eventually draw profits from each.

Yours faithfully,

QUOTIENT (3/2).

### Publicity for Pharmacy

SIR,—I have sent the following letter to the Minister of Health, in the hope that it may help in a small way to draw official attention to the pharmacist, who for some strange reasons seems to be left out of the picture by all Government departments and national bodies:—

"Is it not possible for some publicity to be given, in the national and provincial Press at this time, regarding the extremely useful services performed by the retail pharmacists of Britain in connexion with the maintenance of health and fitness? By virtue of our training, qualification and experience we are in a position to give very helpful guidance to the public on such subjects as vitamin preparations and supplementing the diet. We are in constant daily touch with our customers whom we have come to know well—thus understanding their individual characteristics, temperaments, etc. Such knowledge is very helpful in discussions on such questions as diet supplementaries, hygiene, sanitary

precautions (disinfectants, germicides, both household and personal)—all subjects affecting the prevention or spread of infection, not only of winter ailments, but epidemics which may break out at any time of the year.

We wish to take our part in this work of national importance—both in time of war and peace—and would welcome a lead from your department to the public making for a better understanding on the part of the whole country of the position and qualification of the pharmacist. It should be pointed out to the public that there is a considerable number of conveniently situated, registered pharmacies (at least one in every district of every town and city) all under the personal supervision of qualified pharmacists, who are registered by the Pharmaceutical Society of Great Britain under Act of Parliament, after a training and examination of very high standard. I trust you will consider the possibility of including such propaganda in your public notices, at the same time advising all retail pharmacists of your intention, through the media of the Pharmaceutical Society and the National Pharmaceutical Union. An important duty being undertaken by many pharmacists at present is the manufacture of medicinal preparations in their own pharmacies. You will appreciate that this enables factory man-power to be utilised in essential war production, and assures an uninterrupted supply of necessary medicinal preparations to the civilian population."

Retail pharmacy is suffering from lack of publicity, and has done for some time. I would suggest, therefore, that the opportunity now offers itself for the Society to spend a little money on carefully written articles in the daily Press, stressing the capabilities of pharmacists, through their specialised training and qualification, to prepare all the necessary medicinal requirements in their own shops. Many are already doing this, but it needs support in the Press to bring home to the public the fact that the pharmacist is the person trained to do this work. The last few years have seen the popular demand grow for the nationally advertised proprietary to an unreasonable degree, the public thinking of the pharmacist simply as the distributor of other people's manufactures, and not as the man to do the job. It is not a question of taking advantage of war conditions to bring the pharmacist into his own once more, although many bodies are seeing to it that their interests are looked after, for the sake of the future. We must also look ahead, and should expect our Society to do something now "to protect the business of the chemist and druggist." In addition to publicity by the Society, a useful contribution could be made by local branches in local newspapers. We started this in Bath some weeks ago—each retail chemist being asked to pay for one space in the paper once a year. If all do their part here, we can run this for about thirty weeks (once a week). Several customers in our shops have mentioned that they "see the chemists are now making their own products." This type of remark was the result of only one advertisement on this particular subject. I do hope that retail pharmacy will wake up at last, and, through its local organisations, see that no opportunity is lost to attain the status and security to which we are due. It means hard work, but it is well worth while.

Yours faithfully,

E. C. HASKINS.

Bath.

## Points from Letters

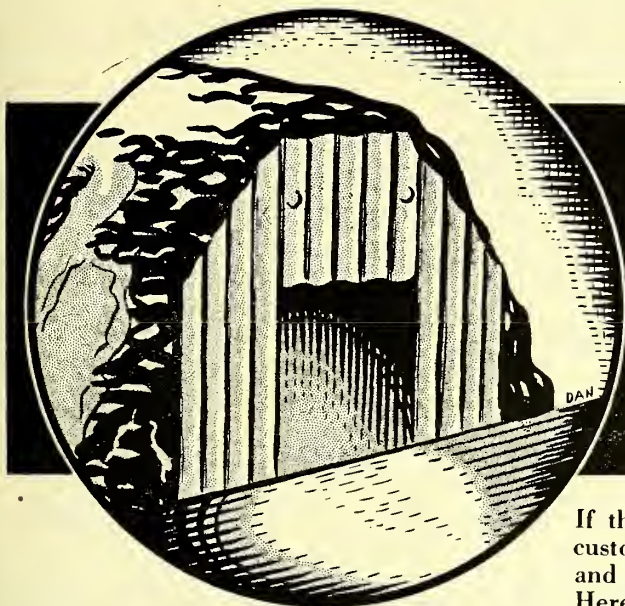
### Effect of Co-op "Appeasement"

I should like to point out that if these very important clauses [Sections 8, 9 and 10 of Pharmacy and Poisons Act, 1933] are deleted it would mean that certain large concerns could place qualified men in one or two of their shops instead of in every shop as at present, and only the existence of these clauses has prevented them from doing so.—*Intransigent* (27/1).

### Value of the Chemist's Qualification

"Pakit" (*C. & D.*, January 11, p. 30) writes: "It has always surprised me that retail chemists have lent themselves to the distribution of branded packs of ordinary drugs. It seems to me derogatory to a pharmacist to be asked for such-and-such brand of Epsom or Glauber's salts. Surely it is one of the basic principles of a pharmacist's training to be able to assure his customers that he supplies them with the best quality drugs, without their being obliged to ask for a special brand. If the present Orders should help to bring home to the chemist the real value of his qualification, then the temporary inconvenience caused by the restriction of supplies may prove to be worth while.—*Skillet* (13/1).





# Shetter "Throats"

If they have not *already* done so, most of your customers will ask your advice on combating colds and sore throats caused by sleeping in shelters. Here are two Bayer preparations you can confidently recommend for effective prevention and treatment of these complaints.

## How to prevent them

TINS OF 30 TABLETS  
(P.A.T.A. 1/3), 10/- doz.

TINS OF 100 TABLETS  
(P.A.T.A. 3/9), 30/- doz.

Purchase Tax extra.

Display Terms : 13 to dozen.

Infections frequently attack the body through the mouth and throat. 'Panflavin,' which contains a powerful antiseptic, destroys germs *in the mouth*—before they get a chance to establish themselves. Having a chocolate base, 'Panflavin' tablets are pleasant to take, and, being packed in small handy containers, can be carried conveniently in handbag or pocket.

Available in packs of 30 and 100 tablets.

# 'PANFLAVIN'

TRADE MARK

BRAND OF THROAT TABLETS

## How to treat them

When a sore throat has been allowed to develop and affects the chest, the uncomfortable symptoms can be relieved by 'Cresival.' This agreeably flavoured expectorant reduces inflammation, loosens tenacious secretion, and controls troublesome cough.

Available in bottles of 4 ozs.

# 'CRESIVAL'

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REDUCED PRICE  
Bottles of 4 ozs. 3/-  
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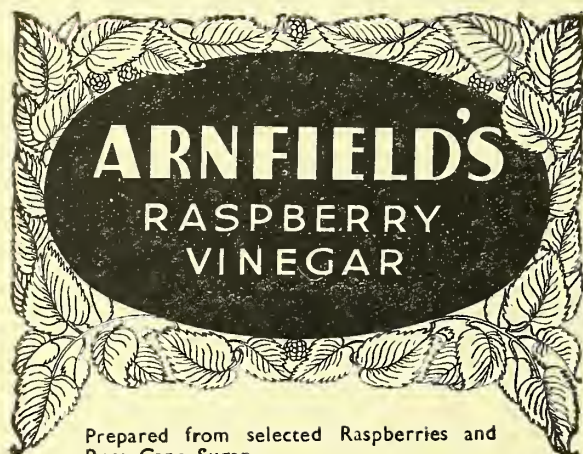
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**ASPIRIN B.P. SODIUM SALICYLATE B.P. SALICYLIC ACID B.P. & Technical****SALICYLATES****ORTHO-CRESOTINIC ACID Technical, SODIUM PHENATE, Etc.***We solicit your enquiries and orders for both B.P. and commercial qualities***GRAESSER SALICYLATES LTD**

The Chemical Works, SANDYCROFT, CHESTER. 'Phone: HAWARDEN 2125. 'Grams: QUALITY, CHESTER



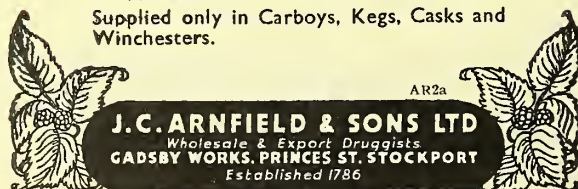
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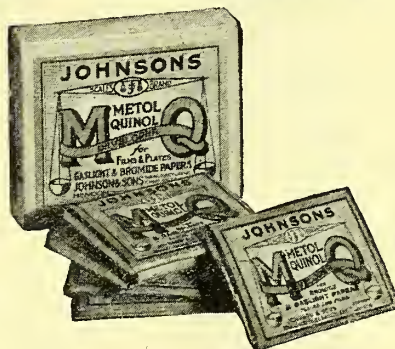


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is made by sublimation and is  
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THE CHEMIST & DRUGGIST DIARY AND YEAR-BOOK, 1936

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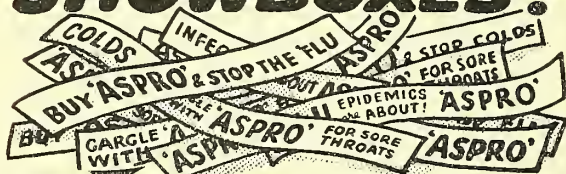
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*These prices apply only to goods of American origin ; outstanding stocks of French origin, whether tablets or granules, should be sold at the existing prices, e.g. Tablets, gr. 1/600, bottle of 40, retail price is 2/10 plus 4d. (tax), i.e. 3/2.*

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CONSTANT prescription demand is assured by our continuous and extensive advertising campaign. Ergoapiol should be maintained at all times.

An adequate stock of ERGOAPIOL in packages of twenty capsules each. Supplied only in packages of the ethical pharmacist, the physician and our product, the initials "MHS" are embossed on the inner surface of each capsule, visible only when capsule is cut in half as shown.

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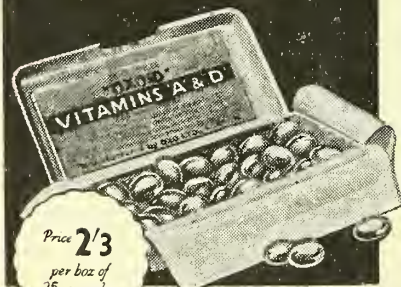
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SEMI - DARKNESS.***(Lancet, 1939, II. 1355.)***TO COMBAT THE  
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**INCOMPATIBILITY IN PRESCRIPTIONS**

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Drugs have been included, and a considerable  
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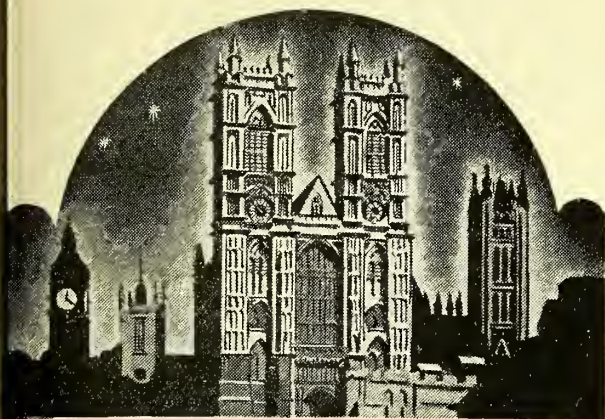
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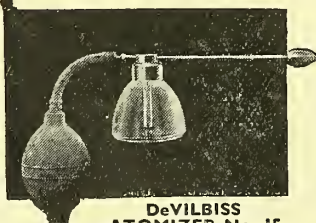
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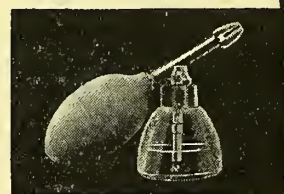
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# The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C. 2

FEB. 8  
1941

## IMPORTANT TO SUPPLEMENT ADVERTISERS

Instructions for supplement advertising are now accepted in London and at Bath. London press times have been advanced to first post WEDNESDAY morning of week of issue but instructions will still be accepted up to first post THURSDAY morning if sent to Bath.

### THIS IS THE TARIFF

**AGENCIES, GOODS FOR SALE, PARTNERSHIPS, PATENTS, PREMISES TO LET, FOR SALE or WANTED**

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Advertisements received after these times will not be inserted until the following week. All advertisements should be prepaid and to avoid disappointment send your instructions as early in the week as possible to

THE CHEMIST AND DRUGGIST, THE PITMAN PRESS, BATH  
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IMPORTANT Sale by Public Auction of splendid modern equipped corner

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With Dwellinghouse overhead, containing Tiled Kitchen, Sittingroom, 2 Bedrooms, Bathroom and w.c. Garage accommodation. Electric light.

To be held at the Salesrooms, 64 O'Connell Street, Limerick, on FRIDAY, 7TH FEBRUARY, at 12 o'clock.

Tenure: Held for ever, free of all rent. P.L.V. £6. Title and conditions of sale from Messrs. Dundon & Treacy, Solicitors, O'Connell Street, Limerick.

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64 O'CONNELL STREET,

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LIMERICK.

## LIMITED COMPANY FORMATION

LIMITED COMPANY REGISTRATION.—To my readers in Great Britain, I now announce the extremely low fee for a Private Limited Company Registration of £100 Co. of Fourteen Guineas, inclusive of books and seal. Auditing for chemists only, under my new very experienced colleague, from £3 3s. per annum. A. Bernard Slack, 721 Princess Road, Manchester, 20.

## PREMISES FOR SALE

FREEHOLD FACTORY FOR SALE

in Leeds. Near to city centre, and conveniently situated for railway and transport. Well-built, airy, three-storey building (area 1,500 square yards). Ideally suited for the manufacture of Clothing, etc., etc. (Centre of Clothing labour.) May consider substantial letting.

CARR, SANDELSON & Co., Solicitors, 15 Bond Street, Leeds, 1.

NORTH-WESTERN Pharmaceutical and Toilet Distributing House have 2,000 square feet of floor space, office organisation, small manufacturer's facilities and warehouse available for light packing or similar work, preferably war work. Propositions will be treated in absolute confidence. Write, Managing Director, 376/766, London Office of this Paper.

## BUSINESSES FOR DISPOSAL

BLACKPOOL.—Chemist's lock-up shop, large residential district. Rent 24s. per week, clear. Apply 376/744, London Office of this Paper.

BROMLEY, KENT.—Old-established Chemist's business; rent £110 per annum, part let off £48. Short lease. For full particulars, apply Parkin S. Booth, Kimberley House, Holborn Viaduct, London, E.C.1.

DONCASTER.—Main road, good district and position. Turnover £1,800. Established 16 years. Sale due to death of proprietor. Good living accommodation. Immediate possession. Apply, Glover & Co., Incorporated Accountants 6 Priory Place, Doncaster.

MIDLANDS.—Complete physical collapse. Growing business estab. 17 years. Chiropody, about £50 p.a.; Optics, £300 to £350 p.a., with Institution contract (with reversion to suitable buyer practically assured); N.H.I. about £200 p.a. Audited accounts for past 5 years. Freehold premises purchasable or favourable lease granted. Responsible references required. 376/763, London Office of this Paper.

THORNTON HEATH, SURREY.—Old-established Chemist's business; Lease 32 years to run at £64 per annum. Stock, Fixtures and Fittings approx. £400. For full particulars, apply, Parkin S. Booth, Kimberley House, Holborn Viaduct, London, E.C.1.



## SITUATIONS OPEN

## RETAIL (HOME)

**OXFORD.** Two Junior Assistants required, male or female, one immediately, the other March 3. Particulars of age, experience, height and salary required, and copy of testimonials and photograph (returnable), to Bellamys, Dispensing Chemists, Limited, 22A Merton Street, Oxford.

## CITY OF MANCHESTER

WITHERINGTON HOSPITAL (1,150 BEDS)  
AND INSTITUTION (1,200 BEDS)

Applications are invited for the post of Chief Pharmacist (non-resident) at Witherington Hospital and Institution, Nell Lane, West Didsbury, Manchester, 20.

Candidates must possess the qualification of "Pharmaceutical Chemist" as recognised by the Pharmaceutical Society of Great Britain and have had wide experience in the work of a hospital dispensary.

Salary £505 to £535 per annum in accordance with the terms and conditions of the Manchester Corporation Grading Scheme.

Full information and forms of application may be had from the Medical Officer of Health, Hospitals Administration Section, P.O. Box 399, Town Hall, Manchester, 2, by whom all applications must be received not later than February 15, 1941.

Canvassing in any form is prohibited.

R. H. ADCOCK,

Town Clerk.

Town Hall,

Manchester, 2.

January 27, 1941.

## NOTTINGHAMSHIRE COUNTY COUNCIL

## PHARMACIST (WOMAN)

APPLICATIONS are invited from Qualified Women for whole-time appointment as Pharmacist to the several Public Assistance Institutions in Nottinghamshire.

The person appointed will be responsible for the receipt, storage, dispensing, recording and accounting of drugs, dressings and medical supplies, and will be required to undertake such other duties as may be prescribed. An Assistant Pharmacist is engaged.

Salary: £225 per annum, increasing by £10 annually to a maximum of £275 per annum. Luncheon will be provided daily.

It will be necessary for the person appointed to provide and maintain a car for use in the performance of her duties, and a mileage allowance will be paid by the County Council in accordance with the Council's scale.

Applications, stating age, qualifications and experience, with copies of recent testimonials, to be sent to me as soon as possible.

K. TWEEDALE MEABY,

Clerk of the County Council.

SHIRE HALL, NOTTINGHAM. February, 1941.

**TORQUAY.** Young Lady for good-class dispensing business, stock-keeping and window dressing experience essential. State age, experience and salary, and send photo if possible. CDB/356, London Office of this Paper.

**ASSISTANT.** Qualification not essential, required for Country Town in the West of England. Lady with knowledge of all depts. might be suitable. Apply, with full particulars, Arnold, 1 Old Tiverton Road, Exeter.

**ASSISTANT.** Qualified or Unqualified. Must be experienced Dispenser, Salesman and Window Dresser. Good-class business. CDB/352, London Office of this Paper.

**LADY.** Qualified (Apoth.) or Unqualified. One accustomed to Chemist's business. State salary required and give references, to F. Willmott, Dispensing Chemist, Radstock.

**LADY Dispenser,** pleasant light duties, with helpful assistance. Write, Carter, Chemist, Northwood, Middlesex.

**PHARMACY.** Unqualified Male Assistant required; also experienced Female Assistant, used to Pharmaceutical and general shop duties. Trade union rates of wages and holidays with pay. Apply in writing, stating age and experience, to the Staff Manager, Royal Arsenal Co-operative Society, Limited, 113 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy."

**QUALIFIED.** Locum wanted immediately; also Qualified Assistant. 1.30 Saturday, no Sunday duty. Write, B. Hooper & Co., Ltd., 6 Railway Place, Fenchurch Street, London, E.C.3.

**QUALIFIED Lady Dispenser** wanted by partnership (Drs. MacLeod and Symons, Loughborough, Leics.), knowledge of typing and shorthand a recommendation. House available. Give full particulars of experience and state salary expected. Recent photo if available.

**SMART** young Lady required for Perfumery shop in London. Write full details. 376/758, London Office of this Paper.

**SMART** Qualified Lady, chiefly for dispensing. Comfortable, permanent, progressive berth. One able to use own initiative. Flat available if required. Please apply with full particulars, salary required and photo if possible. R. H. Shaw, Prescription House, Redditch, Wores.

**UNQUALIFIED Assistant** required for busy working-class pharmacy. Permanency to the right man. State salary required, age and experience. Austins, Ltd., 71 Old Kent Road, London, S.E.1. Tel.: Hop 2775.

**UNQUALIFIED Assistant** required. Salary £3 3s. Reply stating age and experience, to Harold Miller, Ltd., 98 High Street, Cheltenham.

**UNQUALIFIED,** wanted immediately. Reply, stating age, experience and salary required, to "Vac.," Frank A. Rogers, 1 Beaumont Street, London, W.1.

**UNQUALIFIED Manager** required for Drug Store in Midland Reception City. Exempt military service; knowledge of Cine advantage. Good salary offered. Give full details and send copy reference with first letter. CDB/353, London Office of this Paper.

**UNQUALIFIED Assistant,** male, ineligible for military duties, for first-class Retail and Dispensing business. Apply with full details in first letter. Balkwill & Co., Chemists, 106 Old Town Street, Plymouth.

**UNQUALIFIED Junior Assistant** required for old-established Dispensing Business in reception area. Must have had sound training in dispensing and be quick and adaptable. Righton, Chemist, 511 Lord Street, Southport.

**UNQUALIFIED Young Lady Assistant** required for Dispensing, some counter and window dressing. Apply, stating salary required, experience, age, to G. W. Scaddan, Chemist, 214 Broadway, Didsot, Berks.

**WANTED** by Doctor, Qualified Lady Dispenser and Book-keeper, Sussex; outdoor. State age, salary, experience, and give reference to 376/765, London Office of this Paper.

## WHOLESALE

**LONDON** Co-operative Society require immediately the following: One Senior Male Clerk, preferably over military age; Two Female Clerks. Applications are invited from those with experience of the Patent Medicine and Drug trade. The wages to be paid, inclusive of war bonus, would be: Male Clerk, £4 3s. 6d. per week; Female Clerks, £3 0s. 9d. (25 years of age). Applications in first instance to Mr. P. Barnes, Assistant Secretary, 54 Maryland Street, Stratford, London, E.15.

**ASSISTANT** required for Tablet-making Dept. of London Wholesale Chemists and Druggists. Must be capable of operating Single Punch and Rotary Machines. Write, stating age, experience, and wages required. 376/762, London Office of this Paper.

**BURROUGHS WELLCOME & CO.**—A vacancy occurs in our Veterinary Department for a pharmacist to train as **VETERINARY REPRESENTATIVE.** Applicants should have a good general knowledge of modern veterinary therapeutics, and in the first instance should apply by letter with a recent photograph if available, stating age, height, experience, present salary, etc., to Reference C.T., Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1.

**CHARGE** Hand for Wet and Dry Room. Knowledge of dangerous drugs and records essential. (Exempt military service.) Apply giving full particulars to Messrs. W. H. Legat, Ltd., Manufacturing Chemists, Kay Street, Bolton, Lancs.

**FEMALE** (or Male) Assistant wanted for the Dispatch Dept. of Roger & Gallet, Perfumers, Lechmere Road, Willesden Green, N.W.2, able to pack and control stock. Call any afternoon for interview, or write with details and wages required. Only British applicants entertained.

**INVOICE Clerk** required for London Wholesale Druggists. Write, stating experience, etc. 365/381, London Office of this Paper.

**LADY Clerk** and fumers, Lechn bo good at figures. sive position to a j noon for interview No foreigners pleas

**PERFUMERY** for North-We female staff and com mixing face powder formulae necessar advancement. Appl to 375/725, London

**TABLET Maker** sale Druggists

**TABLET Maker** State age, ex sider taking a cap Office of this Paper

**TOILET** Prepar capacity requ propriety lines t capped. Productiv full details extra Paper.

**FOR Pers** ence T Apply: C. LEIGH R

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**ASSISTANT** or and selling o goods; also Pr active; salary, 5 this Paper.

**ASSISTANT, U** Abilities: C Lynch, 52 Howa

**EXPERIENCE** Bucks, Berl modulation option

**LADY, 10 year** Excellent rel London Office of

**MANAGEMENT** M.P.S., m country experien

**PHARMACIST** capable; pr Dispensary. offi 48 Coniston Ave.

**QUALIFIED.** intendent; pensing or Who 376/759, London

**QUALIFIED** or Hospita CDB/351, Lond

**QUALIFIED** or Wales capable and ei London dispens window dresse CDB/361, Lond

**UNQUALIFI** (6½ years preferred. Refe Leeds, 4.

**UNQUALIFI** undeniable easy access to London Office of



## LOCUMS SEEKING ENGAGEMENT

**QUALIFIED**, Locum, much experienced. Now free. Any part or period. Harris, 30 Hawthorne Road, Birmingham, 23

## WHOLESALE

**EXPORT** Manager, aged 32, world-wide experience, languages, successful record, including pioneer work, seeks position greater scope. Apply 376/749, London Office of this Paper.

**REPRESENTATIVE** (44), disengaged shortly, owing to Limitation of Supplies Order. Sound connexion London and Home Counties, worked 15 years Chemists, Hairdressers, Stores, with Sundries, Toilets, Packed Goods. Highest references. Car if required. 376/757, London Office of this Paper.

## FOR SALE

**ALEXANDRIAN** Hand-picked Senna Pods, 4s. 6d. per lb., ex Liverpool; Alexandrian Manufacturing Senna Pods, 1s. per lb., ex Liverpool; Tinnevely Senna Pods, 5½d. per lb., ex London. Cash against delivery order. CDB/359, London Office of this Paper.

**COMPLETE** Chemist's Fittings (mahogany), Wall Cases, Drug Fitting, Window Shelving and Mirrors. Nearest offer. Particulars on application. 24 Lewis Street, Aberaman, Aberdare, Glam.

**48 GROSS** (plus) flat Tins, plain Black Enam., 1½ in. dia., ½ in. deep. Perfect condition. Take buyer's label or band. Offers invited, whole or lots; special terms, collected London. Samples, Franks, 3 Charterhouse Road, Orpington, Kent.

## WANTED

**CITRIC ACID**.—We are regular buyers of any quantities of 1 cwt. and over of Citric Acid Powder, B.P., and Fine Granular B.P. Write to 376/750, London Office of this Paper.

**OILS** and Fats of all descriptions wanted, also Glycerine (refined and unrefined) and stearates. Write, 7 Addison Road, London, W.14.

**SACCHARIN** 550. We are buyers of 5 lb. lots. Good prices paid. Write to 376/751, London Office of this Paper.

**SIFTER** and Mixer (Gardner or others) with Essence Sprayer, 100 lb. capacity, interior, agitator, fitments, etc., of stainless steel. 376/768, London Office of this Paper.

**WANTED**.—Good Secondhand Carcass Mahogany-fronted Chemist's Drawers, up to 200; suitable for Seed Trade; graduated sizes. Also Secondhand Scoop Scales to weigh up to 8 oz., with weights; beam or automatic. Brown & Sons (Seeds), Ltd., 15 Queen Charlotte Street, Bristol, 1.

## AGENCIES

**NORTHERN IRELAND**.—Representative for well-known House desires additional Agency. Good Houses only CDB/360, London Office of this Paper.

## MISCELLANEOUS

**LIMITATION** of supplies. Quota Classes 3, 9, 14 and 16 purchased for cash by reputable firm. Write in confidence, 376/767, London Office of this Paper.

## MAKING-UP WANTED

London Manufacturer wanted to make up advertiser's own formulae. Facilities for labelling and packing desirable but not essential. All components supplied: simple process. 7/10,000 dozen (two products, one summer and one winter) annually. CDB/357, London Office of this Paper.

**SECOND-HAND** Microscopes. A large selection: instruments for all purposes; best makers, faultless, condition. 3d. stamp for list. Chards, Specialists, Forest Hill, London, S.E.23.

## CHEMIST &amp; DRUGGIST

## WAR-TIME TRADE GUIDE

This 8-page guide, published in the CHEMIST & DRUGGIST, January 25, 1941, comprises a comprehensive alphabetical list of pharmaceutical products, drugs, toilet preparations, cosmetics, druggists' sundries, etc., handled by the retail pharmacist.

Against each item is indicated the War-time Trade Restriction control or tax and the amount of tax it is subject to.

Manufacturers, Wholesalers and Retailers thus have available, in a clear and concise form, all the essential information regarding current trading conditions. Reprints are available at the following post free prices.

|              |                |
|--------------|----------------|
| 1 copy 7d.   | 12 copies 5/6  |
| 3 copies 1/8 | 25 copies 10/6 |
| 6 copies 3/- | 50 copies 20/- |

Remittances should be sent with orders to

## THE CHEMIST &amp; DRUGGIST

The Pitman Press, Bath

LATE NEWS  
Examination Results

The following are the results of the examinations of the Pharmaceutical Society of Great Britain held in London during January:—

| Examination              | Entered | Absent | Failed | Referred (One subject) | Pass |
|--------------------------|---------|--------|--------|------------------------|------|
| Preliminary Scientific:— |         |        |        |                        |      |
| (a) Whole examination    | 51      | 2      | 21     | 16                     | 9    |
| (b) Referred subject     | 55      | —      | —      | 26                     | 29   |
| Chemist and Druggist     |         |        |        |                        |      |
| Qualifying:—             |         |        |        |                        |      |
| (a) Whole examination    | 93      | 4      | 38     | 25                     | 26   |
| (b) Referred subject     | 52      | —      | —      | 15                     | 37   |

The following have satisfied the examiners in the Chemist and Druggist Qualifying examination:—

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| Answorth, C. Clitheroe              | Mackie, Bessie, Leigh             |
| Apps, C. J. W. Calne                | Martin, P. K. Holsworthy          |
| Ashworth, A. S. Manchester          | Meredith, R. Newport              |
| Bell, Alice E. Leicester            | Morgan, D. K. Caern               |
| Berry, W. M. D. Southsea            | Odell, H. M. Ashton-under-Lyne    |
| Blakeman, Peggy L. Stapleford       | Patterson, N. H. Rock Ferry       |
| Blakes, D. R. Port Talbot           | Pearce, P. D. Bridgewater         |
| Bromley, W. Atherton                | Pugmiller, Marie A., High Wycombe |
| Cagen, M. Liverpool                 | Ridgway, R. Worsley               |
| Caswell, G. G. Clydach              | Sayles, S. L. Hillsborough        |
| Chadderton, B. Cleveleys            | Shakesby, L. C. Lincoln           |
| Coomber, J. K. Knaphill             | Skuse, W. A. Walsall              |
| Davies, R. G. Liverpool             | Smith, F. W. Grimsby              |
| Davies, S. Hebron                   | Snell, M. R. Sidmouth             |
| Dunkey, Eleanor E., Lower Bebington | Somerset, G. B. Bristol           |
| Evans, Pattie, Pontyberem           | Stonelake, Ethel M., Guernsey     |
| Frodsham, H., St. Helens            | Talbot, L. E. Wells               |
| Gardner, W. J. Bristol              | Thomas, I. B., Rogerstone         |
| Gillespie, J. A. Coventry           | Thomas, I. H., Liverpool          |
| Hague, H. H., Romiley               | Thomas, J. I., Fishguard          |
| Harwood, S. A., Hebdon Bridge       | Thomas, J. S., Llandovery         |
| Heermans, J. P., Bristol            | Thomas, P. H., Wootton Bassett    |
| Higson, R., Manchester              | Thompson, E., Colne               |
| Hill, Janet I., Newport             | Trevelick, D. E., Kidderminster   |
| Hughes, B. D., Rhyl                 | Varley, J. T., Mumbles            |
| Ingham, F. P., Peterborough         | Vivian, H. G., Llanelly           |
| James, Zara S. V., Stockwell        | Walsby, R. J., Burnley            |
| Jenkins, G. J., Rhondda             | Whiffin, R. J., Bedford           |
| Jones, R. T., Port Talbot           | Williams, G. L., Llanfrynach      |
| Kay, V. D., Salford                 | Williams, Margaret B., Bristol    |
| Leach, Cynthia M., Northampton      | Winser, F. P., Wembley            |
| Lingard, Verner, Darwen             |                                   |

## Trade Report

**CALCIUM LACTATE**.—Makers notify an advance in price to 1s. 9d. per lb.

**LACTIC ACID**.—Makers notify an advance in price, as follows: One-cwt. carboys, 1s. 10d. per lb.; Winchester and bottles, 1s. 11d. to 2s. 1d. per lb.



## ARE YOU UNEMPLOYED AS A DIRECT RESULT OF THE WAR ? IF SO, READ THIS

In order to assist employees who have lost their employment, either through enemy action or through businesses being closed down in defence areas, a scheme of free advertisements in the "Situations Wanted" column of this Supplement will be available until further notice.

Any such employee of a retail pharmacist whether qualified or not, or any employee of works producing or distributing products in connexion with the drug and associated industries is invited to make full use of this facility without charge.

Advertisements should be accompanied by particulars of last employment and cause of its termination, and should be addressed to The Publisher, The Chemist and Druggist, The Pitman Press, Bath, to arrive not later than WEDNESDAY morning of week of issue.

## WAR-TIME UNEMPLOYMENT SITUATIONS WANTED

The advertisements in this section are inserted free and are from advertisers who have lost their employment as a direct result of the war.

Prospective employers are requested to give them special consideration.

*Advertisers in this Section should advise us immediately employment has been secured.*

### RETAIL

**CHEMIST** (45) disengaged through enemy action. 20 years good all-round London and Provincial experience. Manager or Assistant. Go anywhere. CDB/329, London Office of this Paper.

**DISPENSER-BOOKKEEPER** requires post with doctor or in hospital. Good experience and testimonials. Dispenser, 30 Woodland Way, Mill Hill, N.W.7.

**LADY Dispenser** (Hall) requires post. Good experience. South-central England or Home Counties preferred. Apply Dispenser, 84 Embleton Road, Lewisham, S.E.13.

**LADY Dispenser** (Hall) requires post. Doctor, Hospital or Institution. Experienced. Apply, Dispenser, 19 Abbey View Road, St. Albans, Herts.

**MANAGER** (Drug Stores), Senior experienced man; anywhere; present situation lost solely through war conditions in London; satisfactory reference. CDB/347, London Office of this Paper.

**PHARMACIST** (35), married, last situation 4 years, desires permanency. Good London and Provincial experience. Conscientious and reliable. "Chemist," 5 Heneconner Drive, Leeds, 7.

### WHOLESALE

**A REPRESENTATIVE**, aged 30, disengaged owing to enemy action; exempt military service; highest references; splendid connexion in London and eight counties; very well known to Chemists, Hairdressers and Stores; able to drive car; seven years' experience. Write, "W," 9 Warkworth Gardens, Osterley, Middx.

**A WELL-KNOWN REPRESENTATIVE**, covering Warwickshire, Staffordshire and Worcestershire; many years on this ground. Good references. Toilets and Chemists' Goods. On commission basis. CDB/348, London Office of this Paper.

**CHEMIST** (42), wide experience, Analytical and Works, Foods and Drugs, Pharmaceuticals, Oils, etc. Position of responsibility required. CDB/343, London Office of this Paper.

**EXPERIENCED** Sugar-coated, disengaged, also Pill-maker and Pearl-coater; 30 years' experience. CDB/307, London Office of this Paper.

**FRIENDLY** alien (46), unfit for military service, desires post as Assistant in chem. pharm. laboratory or factory, research and bacteriological routine, tablet making, supervisor packing department, etc.; central-registered with the Ministry of Labour. S. Tuckner, 43 Murray Street, Salford, 7, Manchester.

**LADY Dispenser**, all-round experience, Hall qualification. Would assist Dr., Chemist, or an Institution. Part-time Dispensing, Stock, etc. Write, 73 Harborough Road, Streatham, S.W.16.

**MEDICAL** Propagandist (33), disengaged owing to enemy action, seeks post with firm of repute. Successfully represented well-known house for 7 years. Excellent references. J. R. Hughes, 71 Coledale Drive, Stanmore, Middx.

**PHARMACEUTICAL** Chemist (40) with 24 years' wholesale experience in manufacturing and executive positions, desires post in similar capacity. Present firm's activities entirely suspended due to enemy action. CDB/317, London Office of this Paper.

**REPRESENTATIVE** (42), disengaged owing to enemy action. Eighteen years' experience calling on Chemists, Hairdressers and Store (Wholesale and Retail). Lancashire, Cheshire and North Wales. Highest credentials. CDB/342, London Office of this Paper.

**REPRESENTATIVE**, over military age, disengaged owing to Limitation of Supplies Order, 16 years' perfumery, excellent London connexion, wholesale and retail. Highest reference. 375/723, London Office of this Paper.

**REPRESENTATIVE**, 20 years' experience on Scottish territory. Firm destroyed by enemy action. Age 44; exempt from military service; car driver; over 1,000 open a/c.s.; can successfully handle proprietary lines, packed goods and drugs. R. E. Drayton, 576 Paisley Road West, Glasgow, S.W.1.

**REPRESENTATIVE** (young), 7 years with present House (bombed out), seeks position. Excellent connexion S. Wales, Lancs, Yorks, N.W. Counties, etc. Drugs, Sundries, Toilets, etc. Can commence immediately. CDB/310, London Office of this Paper.

**REPRESENTATIVE**, disengaged owing to enemy action. Have represented well-known London firm in the Midlands and Eastern Counties ground in all sides of pharmacy. Over military age. Car driver. Excellent references. Twenty years' experience. "Rhei," "St. Moritz," Wellington Road, Mablethorpe, Lincs.

**REPRESENTATIVE**, over military age, disengaged owing to enemy action, has successfully represented well-known firm in South Western Counties for twenty years. Has confidence of all Chemists, Stores, etc.; Perfumery, Cosmetics, Sundries, Packed Goods. Car driver. Highest credentials. H. Russ, "Green Acres," 9 Brickhouse Hill, Tiverton, Devon.

**REPRESENTATIVE**.—Twenty years' experience on the road. East Anglia, South Midlands, etc., calling on Chemists, Hairdressers, and Stores. Disengaged owing to enemy action. Excellent reference. Car driver. Apply CDB/318, London Office of this Paper.

**SALES Representative** (42) disengaged owing to Limitation of Supplies Order, has established connexion among Chemists and Stores in London and district; 11 years with last firm; 21 years' sales experience. Excellent references. Car driver. CDB/308, London Office of this Paper.

**UNQUALIFIED** (23½), bombed out, seeks responsible post as Dispenser or Warehouse Assistant. Experience of both. Lately charge hand in drug warehouse. Exempt military service. Bowdren, 236 Burley Road, Leeds, 4.

**WELL-KNOWN**, successful Midlands, Yorkshire Representative, 16 years, desires post. Ineligible military services, experienced all requirements for Pharmacists, Hairdressers. Quota compelled late firm to suspend representation. Own car. Salary, expenses. CDB/306, London Office of this Paper.



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